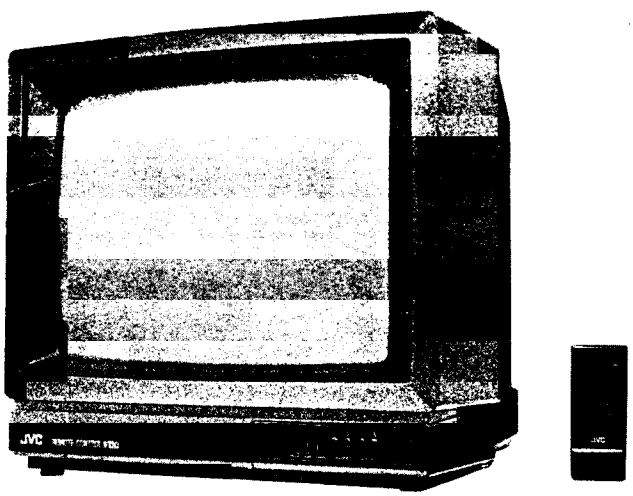
JVC

SERVICE MANUAL

14" (34CM) COLOR TV

MODEL C-140EKY



■ SAFETY PRECAUTION

As for SAFETY PRECAUTION including electric shock prevention, use of designated components, or safety inspection after servicing, refer to the appended PAL/SECAM Adjustment.

CONTENTS

No. 5983
Jul. 1987

■ CHASSIS & CABINET PARTS LIST

	VIEW NO.	SYMBOL NO.	PART NO.	PART NAME	REMARKS	*
	1		CM11032-00W	FRONT CABI. ASS'Y	(Silver)	*
	1		CM11032-00X	FRONT CABI. ASS'Y	(Black)	*
	1		CM11032-00Y	FRONT CABI. ASS'Y	(White)	*
	1		CM11032-00Z	FRONT CABI. ASS'Y	(Red)	*
	2		CM21143-001-E	DOOR	(Silver) Within Front Cabinet Ass'y	*
	2		CM21143-002-E	DOOR	(Black) "	*
	2		CM21143-003-E	DOOR	(White) "	*
	2		CM21143-003-E	DOOR	(Red) "	*
	3		CM31977-C04	CONTROL SHEET	"	
	4		CM43626-004-E	POWER KNOB	"	*
	5		CM30861-034-E	SPRING	"	*
	6		CM31894-C03	INDICATOR WINDOW	"	*
⚠	7	V01	370LHB22TC15J2	PICTURE TUBE/ITC	Include deflection Yoke, PC Magnet, Wedge Ass'y	*
	8		A48457-2-E	SPRING		*
	9	SP01	CEBSB08P-01KJ1	SPEAKER		*
⚠	11	L01	CE41071-001	DEG COIL		*
	12		CM32270-003-E	RATING LABEL		*
⚠	13	T1522	CE41225-00A	HV TRANSF		*
	16		CM41678-003-E	PUSH KNOB	(×2)	*
	17		CM41677-003-E	KNOB CAP		*
	18		CM20952-B01-V0	POWER CORD CLAMP		*
	19		CM10761-001-ME	REAR COVER		*
⚠	20		QMP5138-200J3	POWER CORD		*
	21		CH30168-00B	BRAIDED ASSY		*
	22	TU1001	KM7352ES-G01J2	UHF E TUNER		*
	23		CM32460-00A-E	U LOOP ANT ASSY		*
	24		SBX-F902A (E)	IF MODULE		
	25		SBX-M903A (E)	S SELECT MODULE		
	27	S1201	QSL4A13-C02	LEVER SWITCH	Service Switch	*
⚠	28	Q1551	2SD1426	SI TRANSISTOR	H. Out	
	29	S1702	QST3221-C01	PUSH SWITCH	Preset, Skew	*
	30	S1703	QSP4H11-C02	PUSH SWITCH	Power	*
	31	S1705	QSP4H11-C02	PUSH SWITCH	Tuning△	*
	32	S1706	QSP4H11-C02	PUSH SWITCH	Tuning▽	*
	33	S1707	QSP4H11-C02	PUSH SWITCH	Memory	*
	34	S1708	QSP4H11-C02	PUSH SWITCH	CH△	*
	35	S1709	QSP4H11-C02	PUSH SWITCH	CH▽	*
	36	S1710	QSP4H11-C02	PUSH SWITCH	Vol△	*
	37	S1711	QSP4H11-C02	PUSH SWITCH	Vol▽	*
	38	D1701	SLB-22VR5F	LED	Power ind.	*
	39	D1702	SLR-54DU5	LED	Off Timer ind.	*
	40	D1703	SLR-54MG5	LED	On Timer ind.	*
⚠	41	S1901	QSP4D21-C06	PUSH SWITCH	Main Power	*
⚠	42	F1901	QMF51E2-3R15J2	FUSE	3.15A	*
	43		GBSA4016N	TAP SCREW	(×6)	*

■ PC BOARD PARTS LIST
SBX-1901A(U) (MAIN PB ASS'Y)

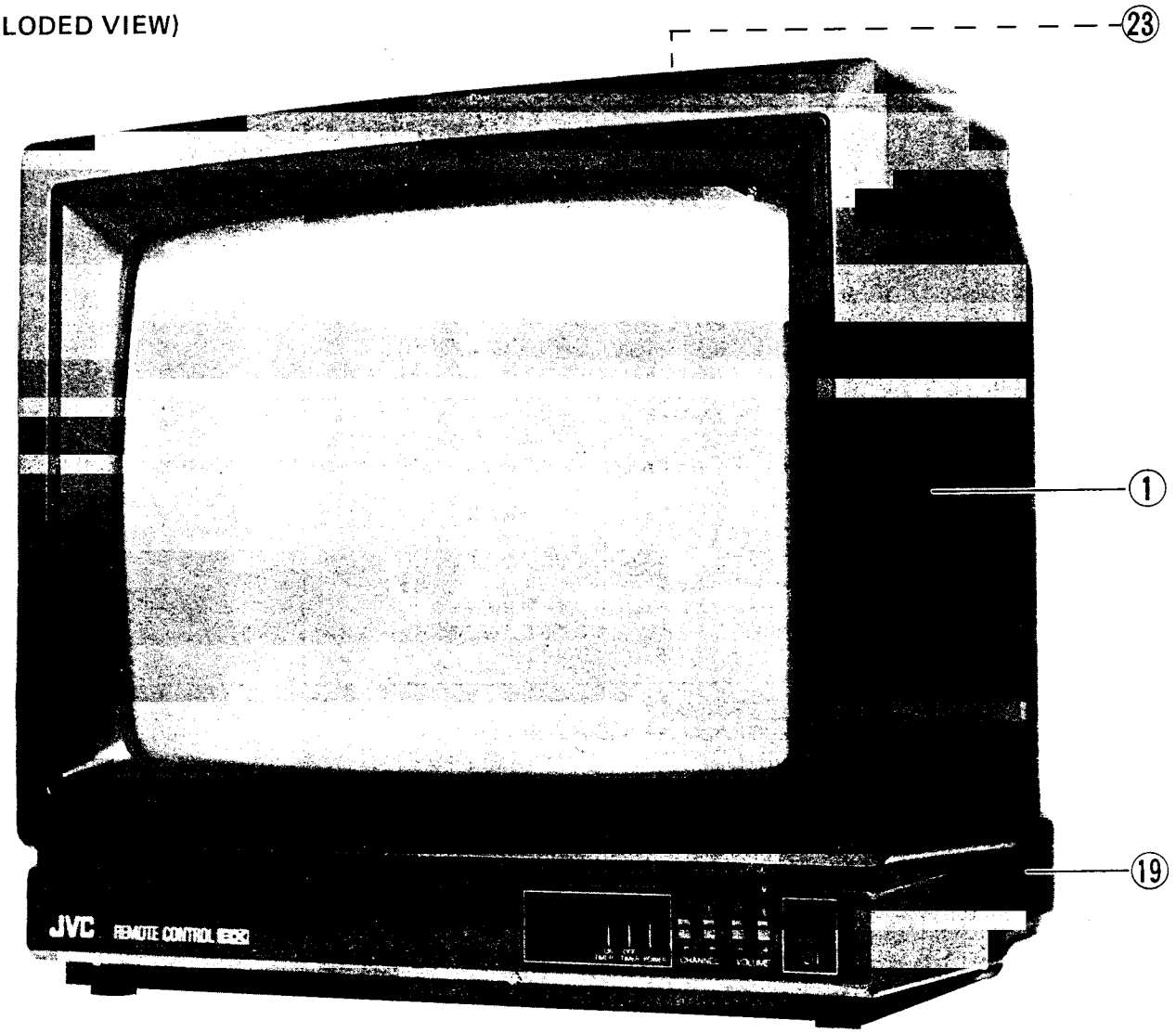
SYMBOL NO.	PART NO.	PART NAME	REMARKS
VARIABLE RESISTOR			
R1104	QVPA601-223A	V R (NOISE)	22kΩ B
R1221	QVPA603-333A	V R (SUB CONT)	33kΩ B
R1222	QVAA009-CB14A	V R (PICTURE)	10kΩ B
R1227	QVPA603-103A	V R (SUB BRIGHT)	10kΩ B
R1230	QVAA010-CB14A	V R (BRIGHT)	10kΩ B
R1339	QVPA601-102A	V R (DL AMP)	1kΩ B
R1361	QVAA009-CB14A	V R (COLOR)	10kΩ B
R1403	QVPA803-201M	V R (V. HEIGHT)	200 Ω B
R1912	QVPA804-503M	V R (B1 ADJ.)	50kΩ B
RESISTOR			
R1235	QRG019J-150S	OM R	15 Ω 1W J
R1519	QRG019J-151S	OM R	150 Ω 1W J
⚠ R1521	QRD161J-183Y	C R	18kΩ 1/6W J
⚠ R1522	QRD161J-683Y	C R	68kΩ 1/6W J
R1524	QRG019J-151S	OM R	150 Ω 1W J
R1531	QRG019J-101S	OM R	100 Ω 1W J
⚠ R1532	QRD161J-223Y	C R	22kΩ 1/6W J
⚠ R1533	QRD143J-6R8SX	C R	6.8 Ω 1/4W J
⚠ R1534	QRD161J-683Y	C R	68kΩ 1/6W J
R1551	QRG019J-471S	OM R	470 Ω 1W J
R1552	QRX029J-1R8	MF R	1.8 Ω 2W J
R1553	QRX029J-4R7A	MF R	4.7 Ω 2W J
R1554	QRX029J-6R8	MF R	6.8 Ω 2W J
R1560	QRG029J-121A	OM R	120 Ω 2W J
⚠ R1572	QRV142F-6341	MF R	6.34kΩ 1/4W F
⚠ R1573	QRV142F-3011	MF R	3.01kΩ 1/4W F
R1902	QRF153K-5R6	UNF R	5.6 Ω 15W K
R1903	QRG029J-823A	OM R	82kΩ 2W J
R1904	QRG029J-473A	OM R	47kΩ 2W J
R1907	QRG019J-221S	OM R	220 Ω 1W J
R1909	QRM055K-R33	MP R	0.33 Ω 5W K
R1914	QRX019J-4R7S	MF R	4.7 Ω 1W J
R1917	QRG029J-470A	OM R	47 Ω 2W J
R1920	QRG029J-100A	OM R	10 Ω 2W J
R1921	QRG029J-332A	OM R	3.3kΩ 2W J
R1922	QRG029J-333A	OM R	33kΩ 2W J
R1923	QRG029J-472A	OM R	4.7kΩ 2W J
R1925	QRG029J-820A	OM R	82 Ω 2W J
R1931	QRG019J-273S	OM R	27kΩ 1W J
R1940	QRG029J-333A	OM R	33kΩ 2W J
⚠ R1961	QRZ0057-825	C R	8.2MΩ 1W J
CAPACITOR			
C1001	QEM61EK-106MZ	E CAP.	10μF 25V K
C1005	QEC01HM-224MZ	E CAP.	0.22μF 50V M
C1308	QEN61HM-105Z	BP E CAP.	1μF 50V M
C1309	QFV71HJ-104MZ	TF CAP.	0.1μF 50V J
C1317	QEN61HM-474Z	BP E CAP.	0.47μF 50V M
C1322	QFV71HJ-393MZ	TF CAP.	0.039μF 50V J
C1402	QEM61HK-225MZ	E CAP.	2.2μF 50V K
C1412	QFV71HJ-563MZ	TF CAP.	0.056μF 50V J
⚠ C1513	QETC0JM-477Z	E CAP.	470μF 6.3V M
⚠ C1551	QFZ0081-5301S	MPP CAP	5300pF 1600V ±3%
C1557	QFV71HJ-104MZ	TF CAP.	0.1μF 50V J
C1558	QFZ0089-354S	MPP CAP.	0.35μF 200V J
C1655	QFV81HJ-184M	TF CAP.	0.18μF 50V J
C1659	QFV71HJ-393MZ	TF CAP.	0.039μF 50V J
C1781	QEKC1CM-336MZ	E CAP.	33μF 16V M

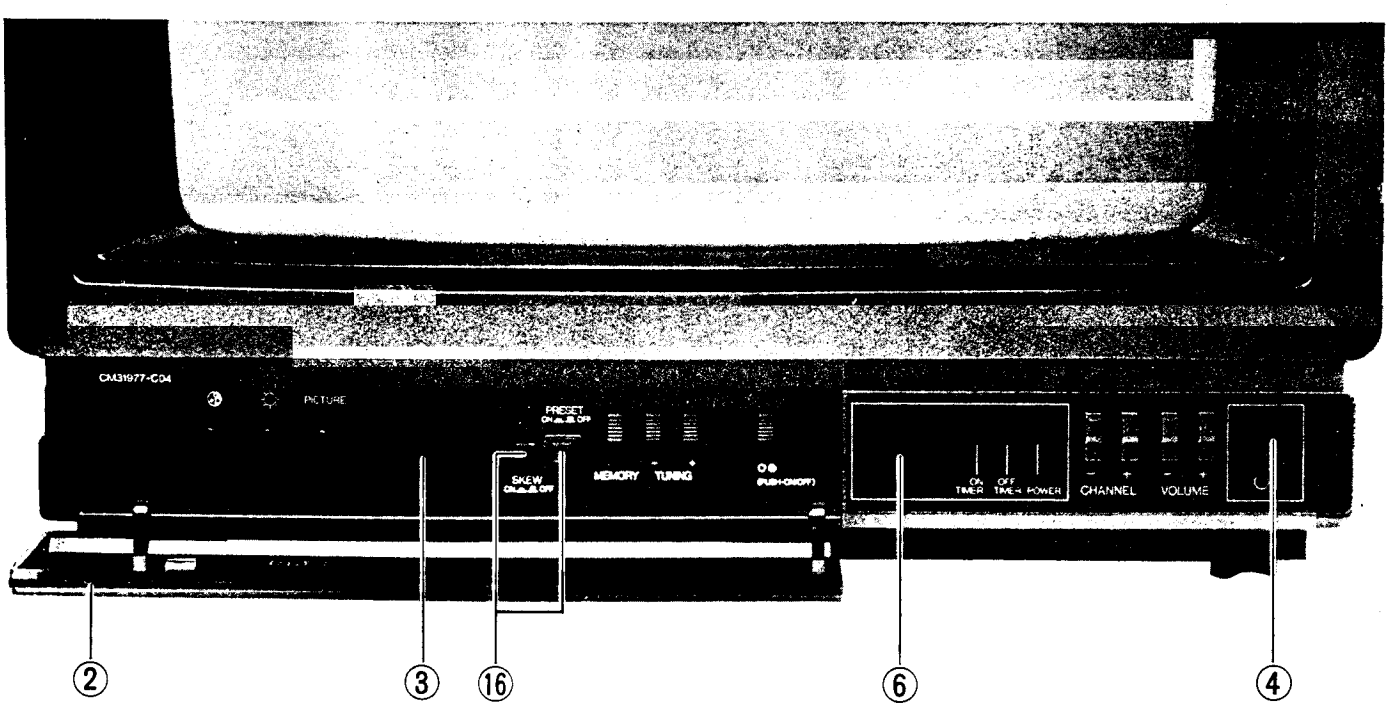
SYMBOL NO.	PART NO.	PART NAME	REMARKS
CAPACITOR			
C1782	QEKC1VM-475GMZ	E CAP.	4.7μF 35V M
C1783	QEKC1CM-106GMZ	E CAP.	10μF 16V M
C1784	QEKC1CM-106GMZ	E CAP.	10μF 16V M
C1785	QFV71HJ-333MZ	TF CAP.	0.033μF 50V J
⚠ C1900	QCZ9041-102A	C CAP.	1000pF AC400V M
⚠ C1901	QFZ9022-473M	MF CAP.	0.047μF AC250V M
⚠ C1902	QFZ9022-473M	MF CAP.	0.047μF AC250V M
⚠ C1905	QCZ9034-472A	C CAP.	4700pF AC400V P
⚠ C1906	QCZ9034-472A	C CAP.	4700pF AC400V P
C1907	QCZ9034-472A	C CAP.	4700pF AC400V P
C1909	QEZ0084-227R	E CAP.	220μF 400V M
C1912	QCZ0122-391U	C CAP.	390 Ω 2000V K
C1916	QFV71HJ-474MZ	TF CAP.	0.47μF 50V J
C1919	QFV71HJ-474MZ	TF CAP.	0.47μF 50V J
C1923	QCZ0122-471A	C CAP.	470pF 2000V K
⚠ C1961	QCZ9041-102A	C CAP.	1000pF AC400V M
⚠ C1962	QCZ9041-471A	C CAP.	470pF AC400V K
C1972	QCZ0122-821U	C CAP.	820pF 2000V K
TRANSFORMER			
T1302A	CE40359	IDENT TRANSF	
T1303	CE40396-A01	DL P TRANSF	
T1552	CE40203-00A	DRIVE TRANSF.	
T1781	CE40304-001	BP TRANSF	
⚠ T1901	CE41056-00B	SW. TRANSF.	
⚠ T1902	CE41059-00B	DRIVE TRANSF.	
COIL			
L1201	CE40041-150Z	PEAKING COIL	15μH
L1204	CE41281-680	PEAKING COIL	68μH
L1301	CELP006-8R2Z	PEAKING COIL	8.2μH
L1303	CELP006-8R2Z	PEAKING COIL	8.2μH
L1551	CE40954-00A	LIN COIL	
L1552	CELC001-270	CHOKE COIL	
L1555	CE40037-111	HVT CHOKE	
L1556	CE40037-111	HVT CHOKE	
DIODE			
D1203	W06A-Z	SI. DIODE	
D1204	1SS133-Y	SI. DIODE	
D1221	1SS133-Y	SI. DIODE	
D1222	1SS133-Y	SI. DIODE	
D1231	1SS133-Y	SI. DIODE	
D1232	1SS133-Y	SI. DIODE	
D1314	RD5.6ES(B3)-Y	ZENER DIODE	
D1318	1SS133-Y	SI. DIODE	
D1319	1SS133-Y	SI. DIODE	
D1321	RD5.6ES(B3)-Y	ZENER DIODE	
D1401	1SR35-100-Z	SI. DIODE	
D1501	1SS133-Y	SI. DIODE	
D1502	MA4056(M)-Y	ZENER DIODE	
D1504	1SS133-Y	SI. DIODE	
D1505	1SS133-Y	SI. DIODE	
⚠ D1507	MA4091(M)-Y	ZENER DIODE	
⚠ D1508	1SS133-Y	SI. DIODE	
D1510	MA4051(M)-Y	ZENER DIODE	
D1511	1SS133-Y	SI. DIODE	
D1551	DFA1A4-Z	SI. DIODE	
D1552	DFA1A4-Z	SI. DIODE	
D1553	RH-1S-Z	SI. DIODE	

SYMBOL NO.	PART NO.	PART NAME	REMARKS
DIODE			
D1571	1SR35-100-Z	SI. DIODE	
⚠ D1572	MA4068 (L) -Y	ZENER DIODE	
D1652	1SS133-Y	SI. DIODE	
D1701	SLB-22VR5F	L. E. D	Power Ind.
D1702	SLR-54DU5F	L. E. D.	Off Timer Ind.
D1703	SLR-54MG5F	L. E. D (GRN)	On Timer Ind.
D1704	1SS133-Y	SI. DIODE	
D1724	1SS133-Y	SI. DIODE	
D1781	PD49PI	PHOTO DIODE	
D1801	1SS133-Y	SI. DIODE	
D1802	1SS133-Y	SI. DIODE	
D1803	1SS133-Y	SI. DIODE	
D1804	1SS133-Y	SI. DIODE	
D1805	1SS133-Y	SI. DIODE	
D1806	1SS133-Y	SI. DIODE	
D1901	LB-156-LF6	DIODE BRIDGE	
D1902	EU2A-Z	SI. DIODE	
D1903	RU1C-LFA1	SI. DIODE	
D1904	EU2A-Z	SI. DIODE	
D1905	W06-B-Z	SI. DIODE	
D1921	RU4B-LFK2	SI. DIODE	
D1922	EU2A-Z	SI. DIODE	
D1923	1SS133-Y	SI. DIODE	
D1924	EU2A-Z	SI. DIODE	
D1925	RD9. 1E (B)	ZENER DIODE	
D1926	DFA1A4-Z	SI. DIODE	
D1927	1SS133-Y	SI. DIODE	
D1928	1SS133-Y	SI. DIODE	
D1929	RD18E (B)	ZENER DIODE	
TRANSISTOR			
Q1201	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
Q1205	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
Q1206	2SC1815 (Y) -Y	SI. TRANSISTOR	
Q1207	2SC1815 (Y) -Y	SI. TRANSISTOR	
Q1208	2SA673 (C) -Y	TRANSISTOR	
Q1307	2SC1815 (BL) -Y	TRANSISTOR	
Q1502	2SC1627A-Y	SI TRANSISTOR	
Q1503	2SC1815 (Y, GR) Y	SI. TRANSISTOR	
Q1504	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
⚠ Q1508	2SC1815 (Y, GR) Y	SI. TRANSISTOR	
⚠ Q1509	2SC1815 (Y, GR) Y	SI. TRANSISTOR	
⚠ Q1551	2SD1426	SI. TRANSISTOR	H. Out
Q1571	2SC1815 (Y, GR) Y	SI. TRANSISTOR	
Q1651	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
Q1901	2SC2655 (Y) -Y	SI. TRANSISTOR	
Q1902	2SA966-Y	SI TRANSISTOR	
Q1921	2SA966-Y	SI TRANSISTOR	
Q1922	2SC1815 (Y, GR) Y	SI. TRANSISTOR	
Q1923	2SD1274AV	SI. TRANSISTOR	
Q1924	2SA1013 (O)	SI. TRANSISTOR	
Q1925	2SC2229 (Y) -Y	SI TRANSISTOR	
Q1926	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
IC			
IC1201	M51308SP	I. C. (M)	
IC1401	AN5515	I. C. (M)	
IC1651	TA7222AP	I. C.	
IC1721	AN78L05	I. C. (M)	
IC1781	UPC1373HA (MS)	I. C. (M)	

SYMBOL NO.	PART NO.	PART NAME	REMARKS
IC			
⚠ IC1901	STR54041S	I. C. (H)	
IC1921	UPC574J	I. C.	
OTHERS			
	SBX-F902A (E)	IF MODULE	
	SBX-M903A (E)	S SELECT MODULE	
DL1201	CE41064-001	DELAY LINE	
DL1301	CE41305-001	1H DELAY LINE	
⚠ F1901	QMF51E2-3R15S	FUSE	3. 15A
⚠ LF1901	CE40995-00A	LINE FILTER	
⚠ R1555	QRZ0055-470M	F R	47 Ω 1/2W J
⚠ R1559	QRH017J-561M	F R	560 Ω 1W J
⚠ R1571	QRH017J-4R7M	F R	4. 7 Ω 1W J
⚠ R1908	QRZ0054-100M	F R	10 Ω 1/4W J
⚠ R1934	QRH017J-101M	F R	100 Ω 1W J
S1201	QSL4A13-C02	LEVER SWITCH	Service SW
S1702	QST3221-C01	PUSH SWITCH	Preset, Skew, System
S1703	QSP4H11-C02	PUSH SWITCH	Power
S1705	QSP4H11-C02	PUSH SWITCH	Tuning△
S1706	QSP4H11-C02	PUSH SWITCH	Tuning▽
S1707	QSP4H11-C02	PUSH SWITCH	Memory
S1708	QSP4H11-C02	PUSH SWITCH	Ch△
S1709	QSP4H11-C02	PUSH SWITCH	Ch▽
S1710	QSP4H11-C02	PUSH SWITCH	Vol△
S1711	QSP4H11-C02	PUSH SWITCH	Vol▽
⚠ S1901	QSP4D21-C06	PUSH SWITCH	Main Power SW
⚠ TH1901	A76038-T	POSISTOR	or A76038
TU1001	KM7351ES-B01	UHF E. TUNER	
X1302	CE41115-001	CRYSTAL	
X1501	CSB500F9	CERAMIC RESO	

(EXPLODED VIEW)





SBX-3901A(U) (CRT SOCKET PB ASS'Y)

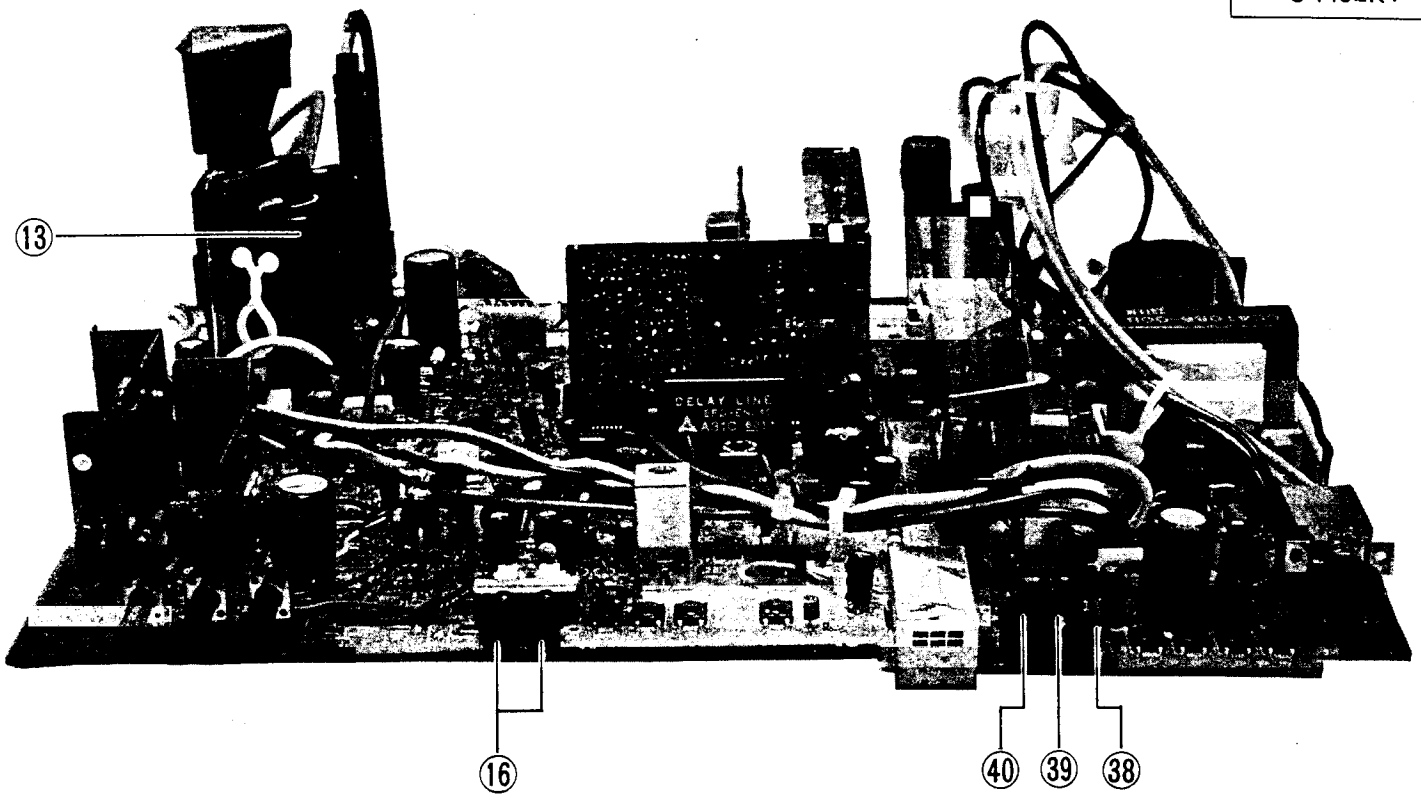
SYMBOL NO.	PART NO.	PART NAME	REMARKS
VARIABLE RESISTOR			
R3009	QVPA803-502M	V R (B CUT OFF)	5kΩ B
R3015	QVPA803-502M	V R (R CUT OFF)	5kΩ B
R3017	QVPA803-502M	V R (G CUT OFF)	5kΩ B
R3021	QVPA803-201M	V R (R DRIVE)	200 Ω B
R3023	QVPA803-201M	V R (G DRIVE)	200 Ω B
RESISTOR			
R3024	QRG019J-153S	OM R	15kΩ 1W J
R3025	QRG019J-153S	OM R	15kΩ 1W J
R3026	QRG019J-153S	OM R	15kΩ 1W J
R3035	QRG029J-473A	OM R	47kΩ 2W J
CAPACITOR			
C3007	QCZ9016-103A	C CAP.	0.01μFAC400V P
COIL			
L3001	QQL043K-221	PEAKING COIL	220μH
TRANSISTOR			
Q3001	2SC2371 (K-M)	SI. TRANSISTOR	B. Out
Q3002	2SC2371 (K-M)	SI. TRANSISTOR	R. Out
Q3003	2SC1815 (Y) -Y	SI. TRANSISTOR	
Q3004	2SC2371 (K-M)	SI. TRANSISTOR	G. Out
Q3005	2SC1815 (Y) -Y	SI. TRANSISTOR	
OTHERS			
⚠	CE40228-00E	CRT SOCKET	

■ MODULE PRINTED CIRCUIT BOARD PARTS LIST

- **The following module PC boards are supplied as assemblies. The component parts on the module PC boards are available only when the parts are listed in the "Module Printed Circuit Board Parts List".**

SBX-F902A(E) (IF MODULE)

SBX-M903A(E) (STATION SELECT MODULE)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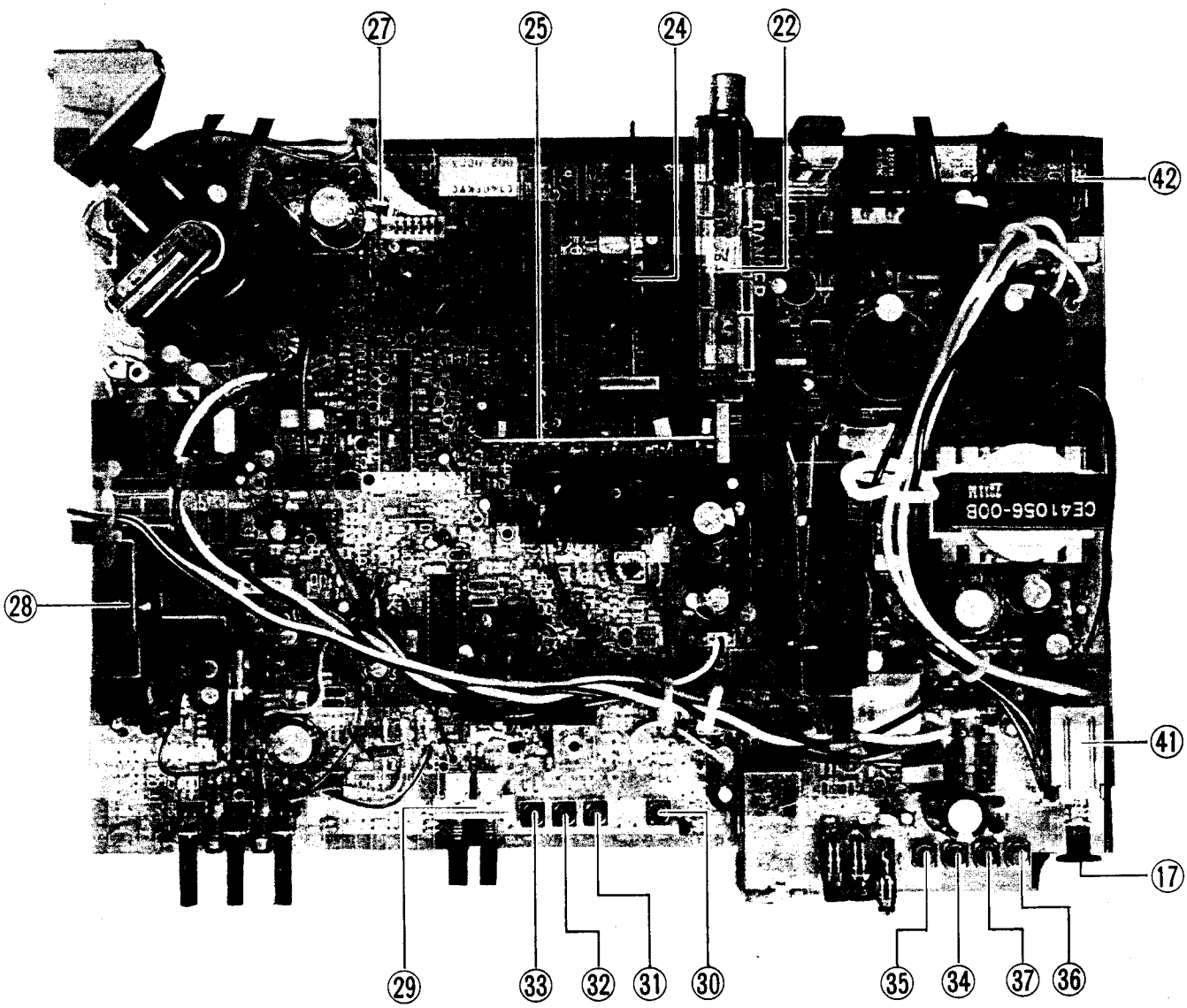
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■ PC BOARD PARTS LIST
SBX-1901A-EY (MAIN PB ASS'Y)

SYMBOL NO.	PART NO.	PART NAME	REMARKS	*
VARIABLE RESISTOR				
R1104	CEX40358-223	VR (NOISE)	22KΩ B	*
R1221	CEX40330-333	VR (SUB CONT)	33KΩ B	*
R1222	QVAA009-CB14A	VR (PICTURE)	10KΩ B	*
R1227	CEX40330-103	VR (SUB BRIGHT)	10KΩ B	*
R1230	QVAA010-CB14A	VR (BRIGHT)	10KΩ B	*
R1339	CEX40358-102	VR (DL AMP)	1KΩ B	*
R1361	QVAA009-CB14A	VR (COLOR)	10KΩ B	*
R1403	CEX40202-022	VR (V. HEIGHT)	200 Ω B	*
R1912	CEX40268-054	VR (B1 ADJ.)	50KΩ B	*
RESISTOR				
R1235	QRG019J-150S	OM R	15 Ω 1W J	*
R1519	QRG019J-151S	OM R	150 Ω 1W J	*
⚠ R1521	QRD161J-183YJ2	C R	18kΩ 1/6W J	*
⚠ R1522	QRD161J-683YJ2	C R	68kΩ 1/6W J	*
R1524	QRG019J-151S	OM R	150 Ω 1W J	*
R1531	QRG019J-101S	OM R	100 Ω 1W J	*
⚠ R1532	QRD161J-223YJ2	C R	22kΩ 1/6W J	*
⚠ R1533	QRD143J-6R8SX	C R	6.8 Ω 1/4W J	*
⚠ R1534	QRD161J-683YJ2	C R	68kΩ 1/6W J	*
R1551	QRG019J-471S	OM R	470 Ω 1W J	*
R1552	QRX029J-1R8A	MF R	1.8 Ω 2W J	*
R1553	QRX029J-4R7A	MF R	4.7 Ω 2W J	*
R1554	QRX029J-6R8A	MF R	6.8 Ω 2W J	*
R1560	QRG029J-121A	OM R	120 Ω 2W J	*
⚠ R1572	QRV142F-6341	MF R	6.34kΩ 1/4W F	*
⚠ R1573	QRV142F-3011	MF R	3.01kΩ 1/4W F	*
R1902	QRF153K-5R6	UNF R	5.6 Ω 15W K	
R1903	QRG029J-823A	OM R	82kΩ 2W J	*
R1904	QRG029J-473A	OM R	47kΩ 2W J	*
R1907	QRG019J-221S	OM R	220 Ω 1W J	*
R1909	QRM055K-R33	MP R	0.33 Ω 5W K	*
R1914	QRX019J-4R7S	MF R	4.7 Ω 1W J	*
R1917	QRG029J-470A	OM R	47 Ω 2W J	*
R1920	QRG029J-100A	OM R	10 Ω 2W J	*
R1921	QRG029J-332A	OM R	3.3kΩ 2W J	*
R1922	QRG029J-333A	OM R	33kΩ 2W J	*
R1923	QRG029J-472A	OM R	4.7kΩ 2W J	*
R1925	QRG029J-820A	OM R	82 Ω 2W J	*
R1931	QRG019J-273S	OM R	27kΩ 1W J	*
R1940	QRG029J-333A	OM R	33kΩ 2W J	*
⚠ R1961	QRZ0057-825	C R	8.2MΩ 1W J	*
CAPACITOR				
C1001	QEM61EK-106MZ	E CAP.	10μF 25V K	*
C1002	QETC1HM-105ZJ5	E CAP.	1μF 50V M	*
C1005	QEC01HM-224MZ	E CAP.	0.22μF 50V M	*
C1006	QETC1CM-107ZJ5	E CAP.	100μF 16V M	*
C1007	QETC1HM-335ZJ5	E CAP.	3.3μF 50V M	*
C1101	QETC1CM-476ZJ5	E CAP.	47μF 16V M	*
C1204	QETC1CM-107ZJ5	E CAP.	100μF 16V M	*
C1207	QETC1CM-106ZJ5	E CAP.	10μF 16V M	*
C1208	QETC1HM-474ZJ5	E CAP.	0.47μF 50V M	*
C1209	QETC1HM-105ZJ5	E CAP.	1μF 50V M	*
C1210	QETC1HM-105ZJ5	E CAP.	1μF 50V M	*
C1308	QEN51HM-105	BP E CAP.	1μF 50V M	*
C1309	QFV71HJ-104MZ	TF CAP.	0.1μF 50V J	*
C1317	QEN51HM-474	BP E CAP.	0.47μF 50V M	*
C1322	QFV71HJ-393MZ	TF CAP.	0.039μF 50V J	*

SYMBOL NO.	PART NO.	PART NAME	REMARKS	*
CAPACITOR				
C1341	QETC1HM-475ZJ3	E CAP.	4.7μF 50V M	*
C1346	QETC1CM-476ZJ5	E CAP.	47μF 16V M	*
C1347	QETB1CM-107J5	E CAP.	100μF 16V M	*
C1348	QETB1CM-108J5	E CAP.	1000μF 16V M	*
C1402	QEM51HK-225M	E CAP.	2.2μF 50V K	*
C1406	QETC1VM-107ZJ5	E CAP.	100μF 35V M	*
C1408	QETB1EM-108J5	E CAP.	1000μF 25V M	*
C1412	QFV71HJ-563MZ	TF CAP.	0.056μF 50V J	*
C1503	QETC1HM-105ZJ5	E CAP.	1μF 50V M	*
C1509	QETC1HM-105ZJ5	E CAP.	1μF 50V M	*
C1510	QETB1VM-476J3	E CAP.	47μF 35V M	*
⚠ C1513	QETC0JM-477ZJ5	E CAP.	470μF 6.3V M	*
C1515	QETC1CM-227ZJ5	E CAP.	220μF 16V M	*
⚠ C1551	QFZ0081-5301S	MPP CAP.	5300pF 1600V ±3%	*
C1553	QETB1VM-228	E CAP.	2200μF 35V M	*
C1554	QETB1CM-108J5	E CAP.	1000μF 16V M	*
C1555	QETB1CM-228	E CAP.	2200μF 16V M	*
C1556	QETC1HM-225ZJ5	E CAP.	2.2μF 50V M	*
C1557	QFV71HJ-104MZ	TF CAP.	0.1μF 50V J	*
C1558	QFZ0089-354S	MPP CAP.	0.35μF 200V K	*
C1571	QETC1EM-107ZJ3	E CAP.	100μF 25V M	*
C1572	QETC0JM-477ZJ5	E CAP.	470μF 6.3V M	*
C1651	QETC1HM-105ZJ5	E CAP.	1μF 50V M	*
C1653	QETB1HM-475J3	E CAP.	4.7μF 50V M	*
C1654	QETC1CM-106ZJ5	E CAP.	10μF 16V M	*
C1655	QFV81HJ-184M	TF CAP.	0.18μF 50V J	*
C1656	QETB1CM-477J5	E CAP.	470μF 16V M	*
C1658	QETC1CM-227ZJ5	E CAP.	220μF 16V M	*
C1659	QFV71HJ-393MZ	TF CAP.	0.039μF 50V J	*
C1664	QETB1CM-107J5	E CAP.	100μF 16V M	*
C1721	QETC0JM-107ZJ5	E CAP.	100μF 6.3V M	*
C1722	QETC1HM-105ZJ5	E CAP.	1μF 50V M	*
C1724	QETC1CM-476ZJ5	E CAP.	47μF 16V M	*
C1725	QETC1CM-106ZJ5	E CAP.	10μF 16V M	*
C1726	QETC1CM-227ZJ5	E CAP.	220μF 16V M	*
C1727	QETC1HM-105ZJ5	E CAP.	1μF 50V M	*
C1728	QETB1HM-105J5	E CAP.	1μF 50V M	*
C1781	QEK51CM-336M	E CAP.	33μF 16V M	*
C1782	QEK51EM-475GJ2	E CAP.	4.7μF 25V M	*
C1783	QEZ0120-106ZJ1	E CAP.	10μF 16V M	*
C1784	QEZ0120-106ZJ1	E CAP.	10μF 16V M	*
C1785	QFV71HJ-333MZ	TF CAP.	0.033μF 50V J	*
⚠ C1900	QCZ9041-102A	C CAP.	1000pF AC400V M	*
⚠ C1901	QFZ9022-473M	MF CAP.	0.047μF AC250V M	*
⚠ C1902	QFZ9022-473M	MF CAP.	0.047μF AC250V M	*
⚠ C1905	QCZ9034-472A	C CAP.	4700pF AC400V P	*
⚠ C1906	QCZ9034-472A	C CAP.	4700pF AC400V P	*
C1907	QCZ9034-472A	C CAP.	4700pF AC400V P	*
C1909	QEZ0084-227R	E CAP.	220μF 400V M	*
C1912	QCZ0122-391A	C CAP.	390pF 2000V K	*
C1913	QETC2AM-106Z	E CAP.	10μF 100V M	*
C1914	QETC2AM-106Z	E CAP.	10μF 100V M	*
C1916	QFV71HJ-474MZ	TF CAP.	0.47μF 50V J	*
C1917	QETC1JM-336ZJ5	E CAP.	33μF 63V M	*
C1923	QCZ0122-471A	C CAP.	470pF 2KV K	*
C1925	QETC1VM-107ZJ5	E CAP.	100μF 35V M	*
C1927	QETB1EM-108J5	E CAP.	1000μF 25V M	*
C1928	QETB1EM-477J5	E CAP.	470μF 25V M	*

	SYMBOL NO.	PART NO.	PART NAME	REMARKS	*
	CAPACITOR				
	C1931	QETB1CM-477J5	E CAP.	470μF 16V M	*
	C1932	QETC1VM-336ZJ3	E CAP.	33μF 35V M	*
	C1933	QETC1HM-105ZJ5	E CAP.	1μF 50V M	*
	C1934	QETB2CM-107	E CAP.	100μF 160V M	*
	C1938	QETC1HM-335ZJ5	E CAP.	3.3μF 50V M	*
⚠	C1961	QCZ9041-102A	C CAP.	1000pFAC400V M	*
⚠	C1962	QCZ9041-471A	C CAP.	470pFAC400V J	*
	C1972	QCZ0122-821A	C CAP.	820pF 2000V K	*
	TRANSFORMER				
	T1302A	CE40359	IDENT TRANSF		*
	T1303	CE40396-A01	DL P TRANSF		*
	T1552	CE40203-00A	DRIVE TRANSF.		*
	T1781	CE40304-001	BP TRANSF		*
⚠	T1901	CE41056-00B	SW. TRANSF.		*
⚠	T1902	CE41059-00B	DRIVE TRANSF.		*
	COIL				
	L1201	CE40041-150	PEAKING COIL	15μH	*
	L1204	CE41281-680	PEAKING COIL	68μH	*
	L1301	CE41065-8R2Z	PEAKING COIL	8.2μH	*
	L1303	CE41065-8R2Z	PEAKING COIL	8.2μH	*
	L1551	CE40954-00A	LIN COIL		*
	L1552	CELC001-270	HEATER CHOKE		*
	L1555	CE40037-111	HVT CHOKE		*
	L1556	CE40037-111	HVT CHOKE		*
	DIODE				
	D1203	W06A-Z	SI. DIODE		*
	D1204	1SS133-Y	SI. DIODE		*
	D1221	1SS133-Y	SI. DIODE		*
	D1222	1SS133-Y	SI. DIODE		*
	D1231	1SS133-Y	SI. DIODE		*
	D1232	1SS133-Y	SI. DIODE		*
	D1314	RD5.6ES(B3)-Y	ZENER DIODE		*
	D1318	1SS133-Y	SI. DIODE		*
	D1319	1SS133-Y	SI. DIODE		*
	D1321	RD5.6ES(B3)-Y	ZENER DIODE		*
	D1401	1SR35-100-Z	SI. DIODE		*
	D1501	1SS133-Y	SI. DIODE		*
	D1502	MA4056(M)-Y	ZENER DIODE		*
	D1504	1SS133-Y	SI. DIODE		*
	D1505	1SS133-Y	SI. DIODE		*
⚠	D1507	MA4091(M)-Y	ZENER DIODE		*
⚠	D1508	1SS133-Y	SI. DIODE		*
	D1510	MA4051(M)-Y	ZENER DIODE		*
	D1511	1SS133-Y	SI. DIODE		*
	D1551	DFA1A4-Z	SI. DIODE		*
	D1552	DFA1A4-Z	SI. DIODE		*
	D1553	RH-1S-Z	SI. DIODE		*
	D1571	1SR35-100-Z	SI. DIODE		*
⚠	D1572	MA4068(L)-Y	ZENER DIODE		*
	D1652	1SS133-Y	SI. DIODE		*
	D1701	SLB-22VR5F	L E D	Power ind.	*
	D1702	SLR-54DU5	L E D	Off Timer ind.	*
	D1703	SLR-54MG5	LED (GRN)	On Timer ind.	*
	D1704	1SS133-Y	SI. DIODE		*
	D1724	1SS133-Y	SI. DIODE		*
	D1781	PD49P1	PHOTO DIODE		*
	D1801	1SS133-Y	SI. DIODE		*

	SYMBOL NO.	PART NO.	PART NAME	REMARKS	*
	DIODE				
	D1802	1SS133-Y	SI. DIODE		*
	D1803	1SS133-Y	SI. DIODE		*
	D1804	1SS133-Y	SI. DIODE		*
	D1805	1SS133-Y	SI. DIODE		*
	D1806	1SS133-Y	SI. DIODE		*
	D1901	LB-156	DIODE BRIDGE		*
	D1902	EU2A-Z	SI. DIODE		*
	D1903	RU1C-LFA1	SI. DIODE		*
	D1904	EU2A-Z	SI. DIODE		*
	D1905	W06-B-Z	SI DIODE		*
	D1921	RU4B-LFK2	SI DIODE		*
	D1922	EU2A-Z	SI. DIODE		*
	D1923	1SS133-Y	SI. DIODE		*
	D1924	EU2A-Z	SI. DIODE		*
	D1925	RD9.1E(B)	ZENER DIODE		*
	D1926	DFA1A4-Z	SI. DIODE		*
	D1927	1SS133-Y	SI. DIODE		*
	D1928	1SS133-Y	SI. DIODE		*
	D1929	RD18E(B)	ZENER DIODE		*
	TRANSISTOR				
	Q1201	2SA1015(Y,GR)L	SI. TRANSISTOR		
	Q1205	2SA1015(Y,GR)Y	SI. TRANSISTOR		*
	Q1206	2SC1815(Y)	SI. TRANSISTOR		
	Q1207	2SC1815(Y)-Y	SI TRANSISTOR		*
	Q1208	2SA673(C)	SI. TRANSISTOR		*
	Q1307	2SC1815(BL)-Y	TRANSISTOR		*
	Q1502	2SC1627A	SI. TRANSISTOR		
	Q1503	2SC1815(Y,GR)Y	SI. TRANSISTOR		*
	Q1504	2SA1015(Y,GR)Y	SI. TRANSISTOR		*
⚠	Q1508	2SC1815(Y,GR)Y	SI. TRANSISTOR		*
⚠	Q1509	2SC1815(Y,GR)Y	SI. TRANSISTOR		*
⚠	Q1551	2SD1426	SI. TRANSISTOR	H. Out	
	Q1571	2SC1815(Y,GR)Y	SI. TRANSISTOR		*
	Q1651	2SA1015(Y,GR)Y	SI. TRANSISTOR		*
	Q1901	2SC2655(Y)	SI. TRANSISTOR		
	Q1902	2SA966	SI. TRANSISTOR		
	Q1921	2SA966	SI. TRANSISTOR		
	Q1922	2SC1815(Y,GR)Y	SI. TRANSISTOR		*
	Q1923	2SD1274AV	SI. TRANSISTOR		*
	Q1924	2SA1013(O)	SI. TRANSISTOR		
	Q1925	2SC2229(Y)	SI. TRANSISTOR		
	Q1926	2SA1015(Y,GR)Y	SI. TRANSISTOR		*
	IC				
	IC1201	M51308SP	I. C.		*
	IC1401	AN5515	I. C.		*
	IC1651	TA7222AP	I. C.		
	IC1721	AN78L05	I. C.		*
	IC1781	UPC1373HA(MS)	I. C. (M)		*
⚠	IC1901	STR54041S	I. C.		*
	IC1921	UPC574J	I. C.		*
	OTHERS				
		SBX-F902A(E)	IF MODULE		
		SBX-M903A(E)	S SELECT MODULE		
	DL1201	CE41064-001	DELAY LINE		*
	DL1301	CE41305-001	1H DELAY LINE		*
⚠	F1901	QMF51E2-3R15J2	FUSE	3.15A	*
⚠	LF1901	CE40995-00A	LINE FILTER		*

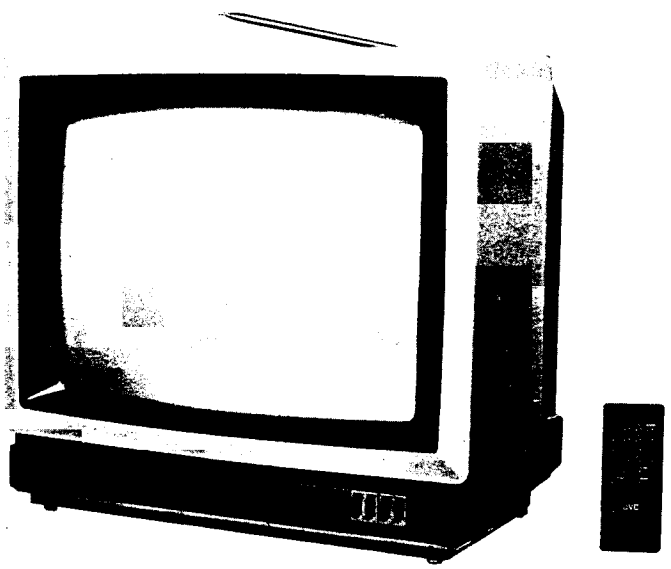
JVC

SUPPLEMENTARY

SERVICE MANUAL

14"(34CM)COLOR TV

MODEL C-140EKY



■ **INFORMATION**

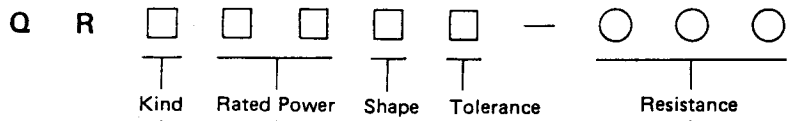
1. The local procurement method for Model C-140EKY has been altered, and the Parts List has been changed accordingly. For this reason, this Supplementary has been issued.
   Therefore, please replace the Parts List already issued (Manual No. 5983) with the recently issued Parts List (Manual No. 5983C).
2. In ordering repair parts, please confirm the Manual No. and the Parts List, so errors can be avoided.
3. As for the "Service Adjustment" (Page 3) within the already issued Service Manual C-140EKY (No. 5983), refer to the Supplementary (Only Adjustment) (Manual No. 5840B) of the original Model C-140EK (No. 5840).

* The Parts List is printed on Page 2 and the pages thereafter.

No. 5983C
May 1988

(NOTE 2) HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS

■ RESISTOR



Symbol	Part Name
C	COMP. R
D	C R
S	CH MG R

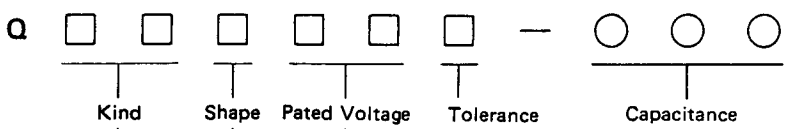
Symbol	Rated Power
0 1	1 W
1 2	1/2 W
1 4	1/4 W
1 6	1/6 W
1 8	1/8 W

Symbol	Shape
1	Straight lead
8	Chip

Indicate with first two-figure expressed by Ω and following 0.
Please note that, in case of resistance less than 10 Ω, a letter "R" will be effective as point.

Ex. · 2.2 Ω → 2R2
· 470 Ω = 47×10^1 → 471
· 150 kΩ = 15×10^4 → 154

■ CAPACITOR



Symbol	Part Name
C S	C CAP.
C S	CH C CAP.
E T	E CAP.
F M	M CAP.

5 Figure / 6 Figure	0	1	2
A		10 V	100 V
C		16 V	160 V
D			200 V
E		25 V	250 V
H		50 V	500 V
J	6.3 V	63 V	
V		35 V	

Indicatè with first two-figure expressed by pF and following 0.
Please note that, in case of capacitance less than 10 pF, a letter "R" will be effective as point.

Ex. · 5 pF = → 5R0
· 1000 pF = 10×10^2 → 102
· 47 μF = 47×10^6 → 476

Symbol	Shape
1	Straight lead
1	Leads in the same direction
8	Chip
A	Leads in the same direction (Compact part)

JVC C-140EKY SCHEMATIC DIAGRAM

■ NOTICE

○ Voltage values and waveforms are measured by respectively receiving and displaying on the screen the colour bars signals of the PAL.
[Voltage value display method]
The voltage values indicated within the circuits denote those obtained when PAL colour bar signals are received and displayed on the screen.
Multimeter used.
DC 20kΩ/V
Given figures are all DC voltages.
Sweep speed of oscilloscope
H → 20 μS/div. V → 5 mS/div.
Others → sweep speed specified

○ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

■ SAFETY

FR (-WW-FR) denotes a fusible resistor which operates as a fuse. When replacing fusible resistors and parts indicated with black shading (▬) in the circuit diagrams, be sure to ensue safety by using designated parts.
As to other parts too, use designated parts to maintain safety and performance.

NOTE FOR SERVICE

This model's power supply circuit has different GND potentials. The different GND potentials are shown by the LIVE (primary: ⊥) side GND and the NEUTRAL (secondary: ⏚) side GND.
Be sure never to short between the LIVE side GND and NEUTRAL side GND and never measure with a measuring apparatus (oscilloscope etc) the LIVE side GND and the NEUTRAL side GND at the same time.
If the above note is ignored, some component breakdown will result.

■ INDICATION OF PARTS SYMBOL

Inside board (Example) SBX-1901A-EY: R1209 → R209
Outside board (Example) R0001 → R01

■ SCHEMATIC DIAGRAM INDICATION

Resistor

○ Resistance value
Without unit: [Ω] K : [kΩ] M : [MΩ]

○ Rated allowable power
Without indication : 1/6W, Others Indicated

○ Type

Without indication	: Carbon resistor
OMR	: Oxide metal film resistor
UNF R	: Unflammable resistor
MF R	: Metal film resistor
FR	: Fusible resistor

* Composition resistor 1/2 [W] is indicated as 1/2S or Comp.

Capacitor

○ Capacitance
Above 1 [pF] : Below 1 [μF]

○ Withstand voltage

Without indication	: DC 50 [V]
Others	: DC withstand voltage [V]
AC indicated	: AC withstand voltage [V]

○ Indications for electrolitic capacitors are as follows.
(Example)
47/50 → capacitance [μF] / withstand voltage [V]

○ Type

Without indication	: Ceramic capacitor
MY	: Mylar capacitor
MM	: Metalized mylar capacitor
PP	: Polypropylene capacitor
MPP	: Metalized polypropylene capacitor
NP	: Nonpolar electrolytic capacitor
BP	: Bipolar electrolytic capacitor
TAN.	: Tantalum capacitor

Coil
Without unit : [μH]

Connection method
▭: Connector, ⟶: Receptacle
○: Wrapping or soldering

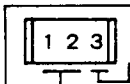
Power Supply
▬▬: B_1 (115V), ▬ ▬ ▬: B_2 (12V)
▭▭▭: 5 V

Test point & GND. symbol.
◉: Test point by miniature GT pin
○: Only test point display
⊥: Live (Primary) side ground
⏚: Neutral (Secondary) side ground

■ HOW TO READ CHIP COMPONENTS

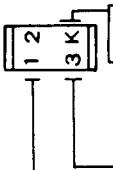
(Chip parts are used each module.)

< CHIP METAL GLASE RESISTOR >



$12 \times 10^3 = 12000\ [\Omega] = 12\ [k\Omega]$ (Resistance)

< CHIP CERAMIC CAPACITOR >



$12 \times 10^3 = 12000\ [pF] = 0.012\ [\mu F]$ (Capacitance)

< CHIP TRANSISTOR >

Part No.	Display method
2SC2778 (B, C)	(K)(B) denotes 2SC2778; K . C parts ranking: B
2SA1022 (C)	E . C

< CHIP DIODE >

Part No.	Display method
MA151WK	(M)(T) denotes MA151; parts ranking: T

■ PARTS LIST (Shaded Parts in the Schematic Diagram)

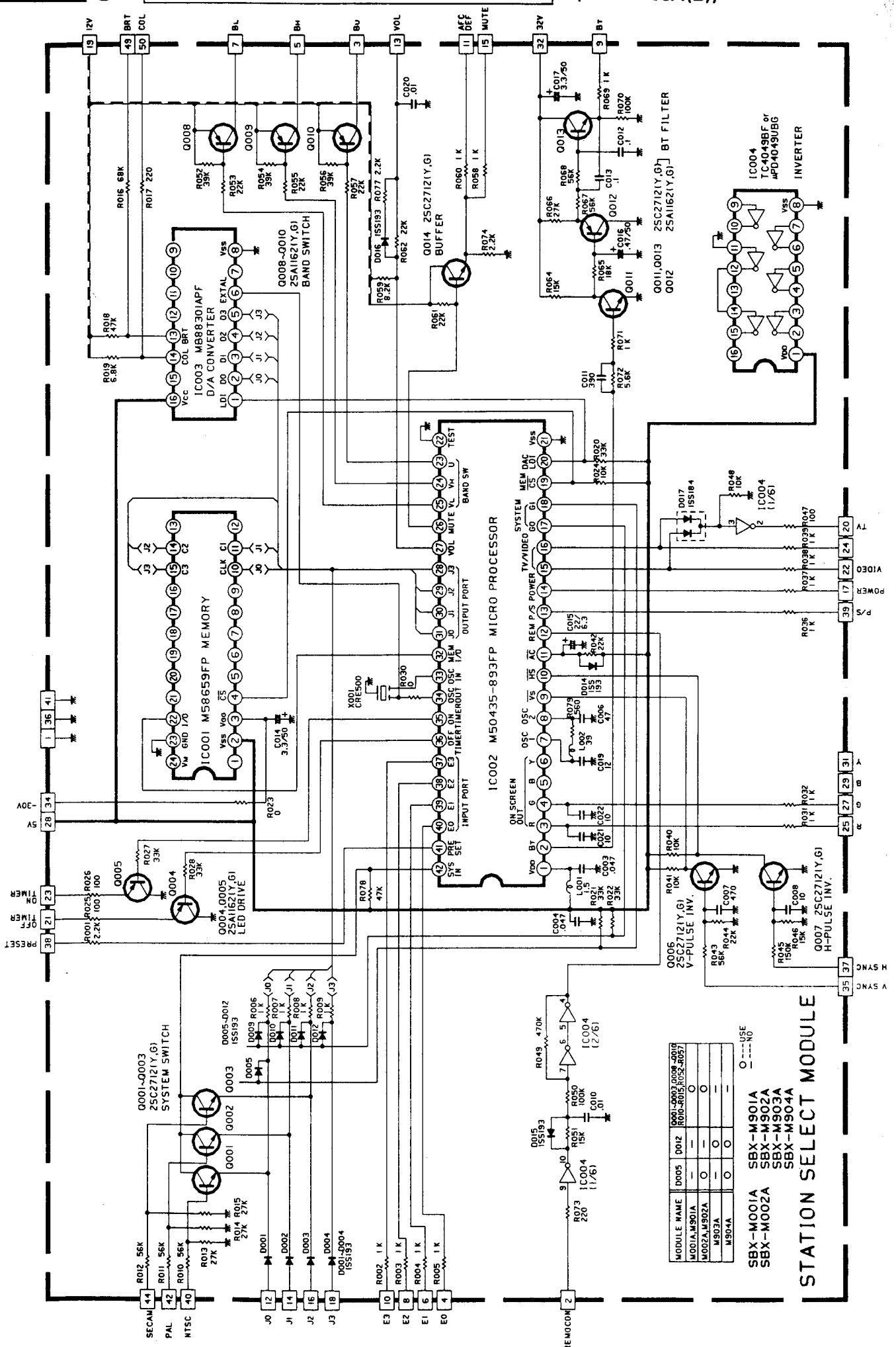
Symbol No.	Part No.	Part Name
SBX-1901A-EY MAIN PCB ASS'Y		
R1521	QRD161J-183YJ2	C R
1522	QRD161J-683YJ2	"
1532	QRD161J-223YJ2	"
1533	QRD143J-6R8SX	"
1534	QRD161J-683YJ2	"
1572	QRV142F-6341	MF R
1573	QRV142F-3011	"
1961	QRZ0057-825	C R
C1513	QETC0JM-477ZJ5	E Cap
1551	QFZ0081-5301S	MPP Cap
1900	QCZ9041-102A	C Cap
1901,2	QFZ9022-473M	MF Cap
1905,6	QCZ9034-472A	C Cap
1961	QCZ9041-102A	"
1962	QCZ9041-471A	"
T1901	CE41056-00B	SW Transf
1902	CE41059-00B	Drive Transf
D1507	MA4091(M)-Y	Zener Diode
1508	1SS133-Y	Si Diode
1572	MA4068(L)-Y	Zener Diode
Q1508,9	2SC1815(Y,GR)Y	Si Transistor
1551	2SD1426	"
IC1901	STR54041S	IC
R1555	QRZ0055-470M	F R
1559	QRH017J-561M	"
1571	QRH017J-4R7M	"
1908	QRZ0054-100M	"
1934	QRH017J-101M	"

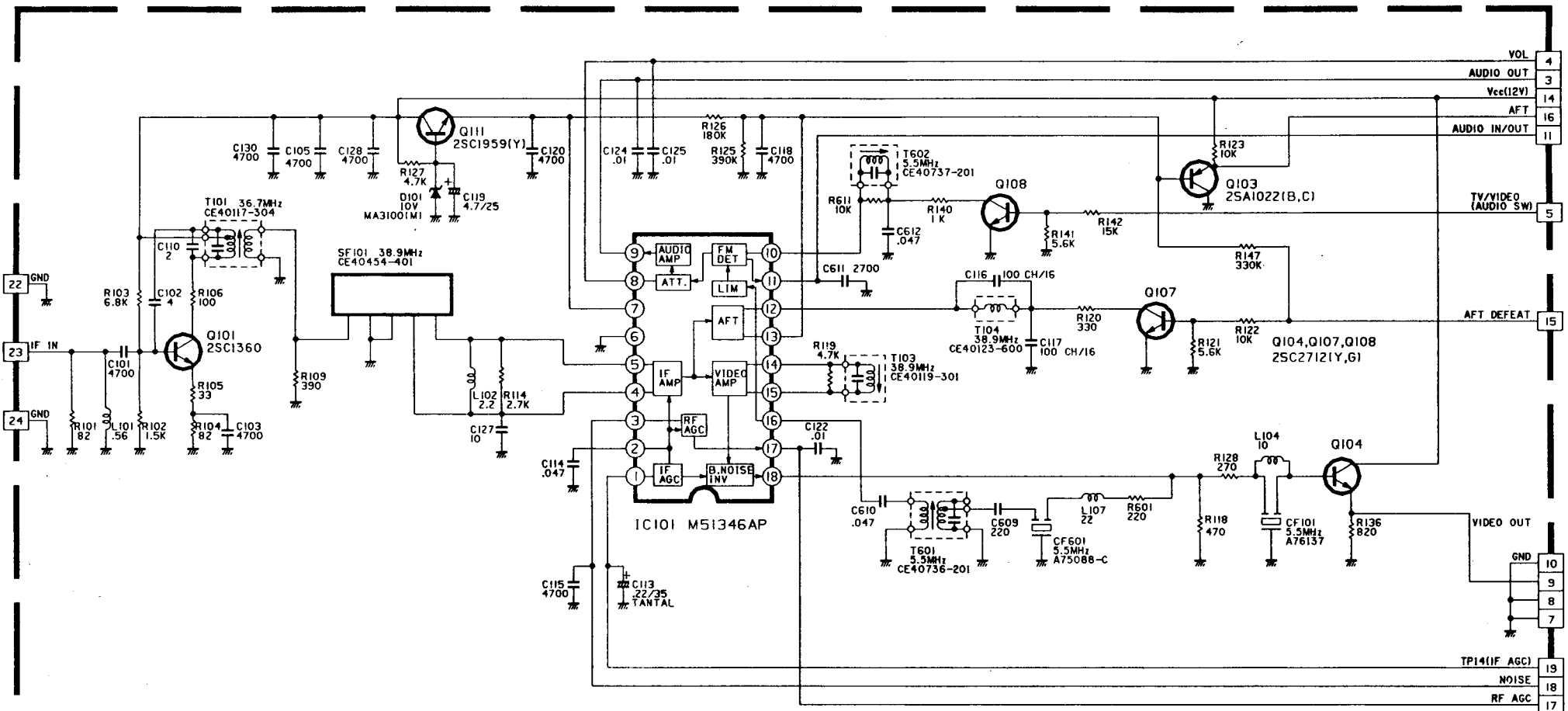
Symbol No.	Part No.	Part Name
F1901	QMF51E2-3R15J2	Fuse
LF1901	CE40995-00A	Line Filter
S1901	QSP4D21-C06	Power Switch
TH1901	A76038-T	W-PTC
SBX-3901A-EY CRT SOCKET PCB ASS'Y		
	CE40228-00E	CRT Socket
OUTSIDE OF PCB ASS'Y		
V01	370LHB22TC15J2	Picture Tube/ITC
L01	CE41071-001	Deg Coil
T1522	CE41225-00A	HV Transf
	QMP5138-200J3	Power Cord

C-140EKY

Ⓐ

S SELECT MODULE SCHEMATIC DIAGRAM (SBX-M903A(E))



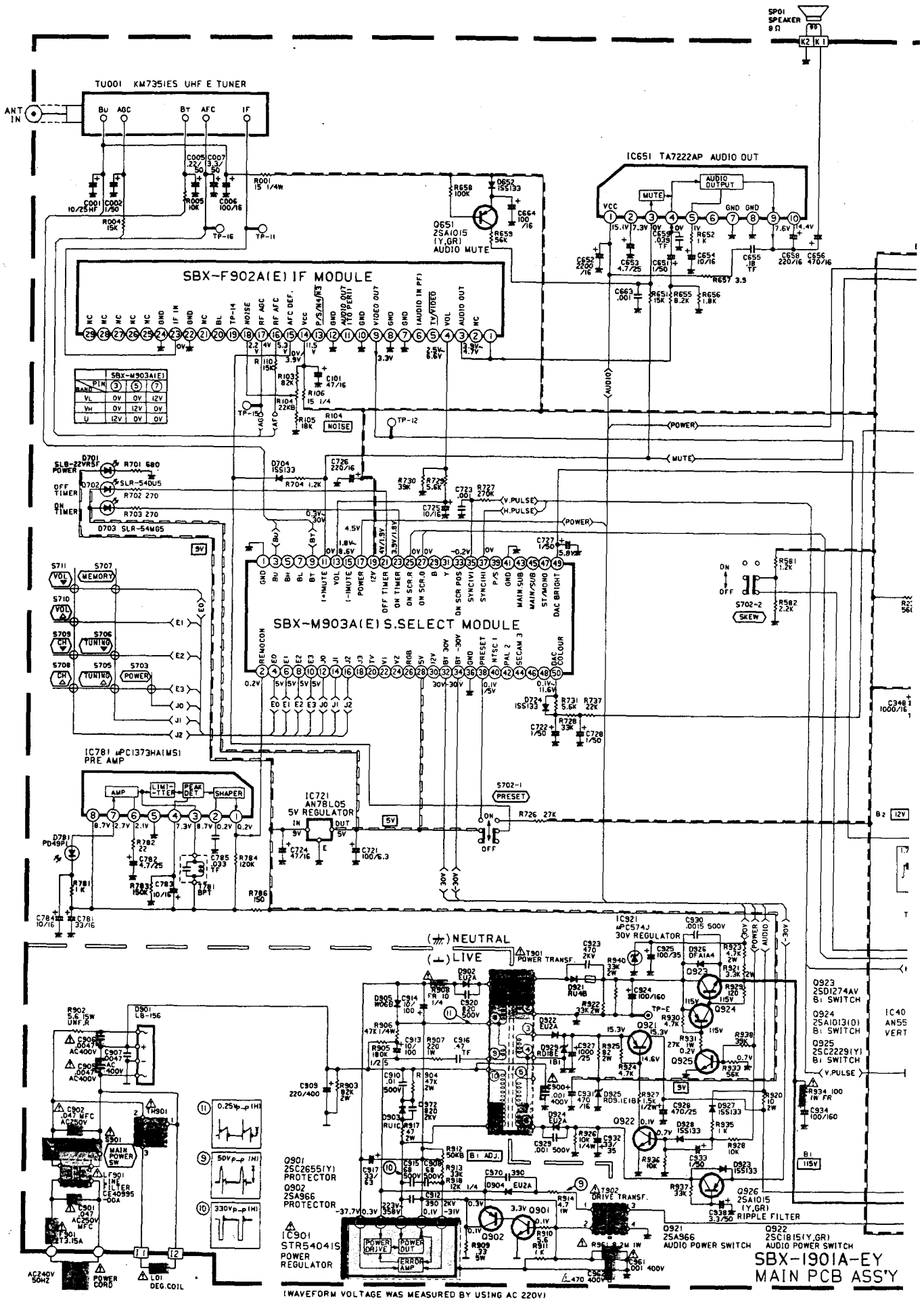


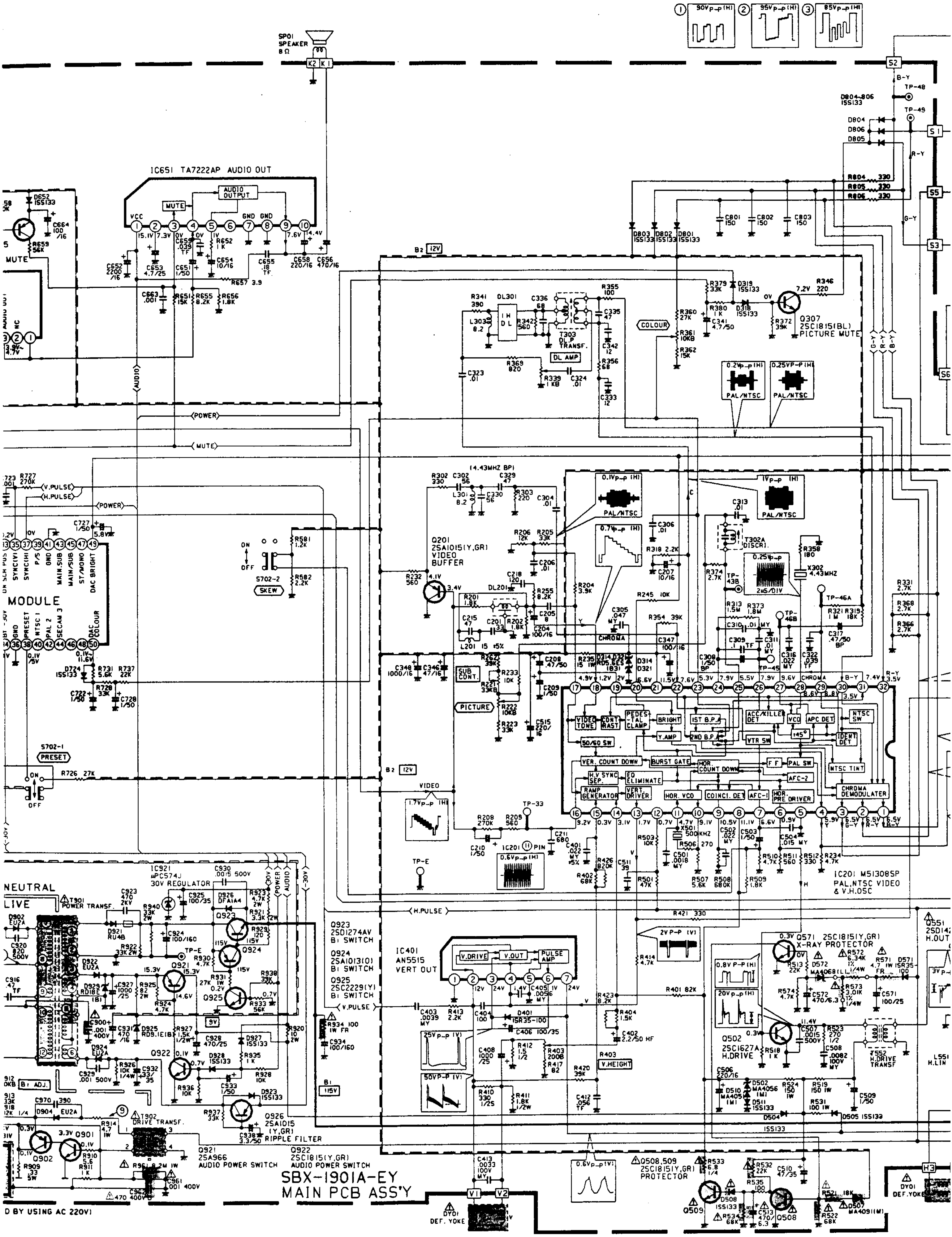
	P I F	S I F	SYSTEM	DESTI-NATION	DIFFERENCE								
					SF101	CF601	T101	T104	L102	CF101	T601	C110	C127
SBX-F001A	38.9MHz	5.5MHz	B/G	EU	38.9MHz CE40454-401	5.5MHz A75088-C	36.7MHz CE40117-304	38.9MHz CE40123-600	2.2μ	5.5MHz A76137	5.5MHz CE40736-201		
SBX-F101A	36.875MHz	5.5MHz	B/G	AU	36.875MHz CE40454-701	5.5MHz A75088-C	34.7MHz CE40117-303	36.875MHz CE40123-700	3.9μ	5.5MHz A76137	5.5MHz CE40736-201	2P	
SBX-F902A	39.5MHz	6.0MHz	I	GB	39.5MHz CE40454-301	6.0MHz A75111-C	37.3MHz CE40117-309	39.5MHz CE40123-600	2.2μ	6.0MHz A76138	6.0MHz CE40736-202		10P

* NON CONNECT
1,2,6,13,20,21,25~29(pin)

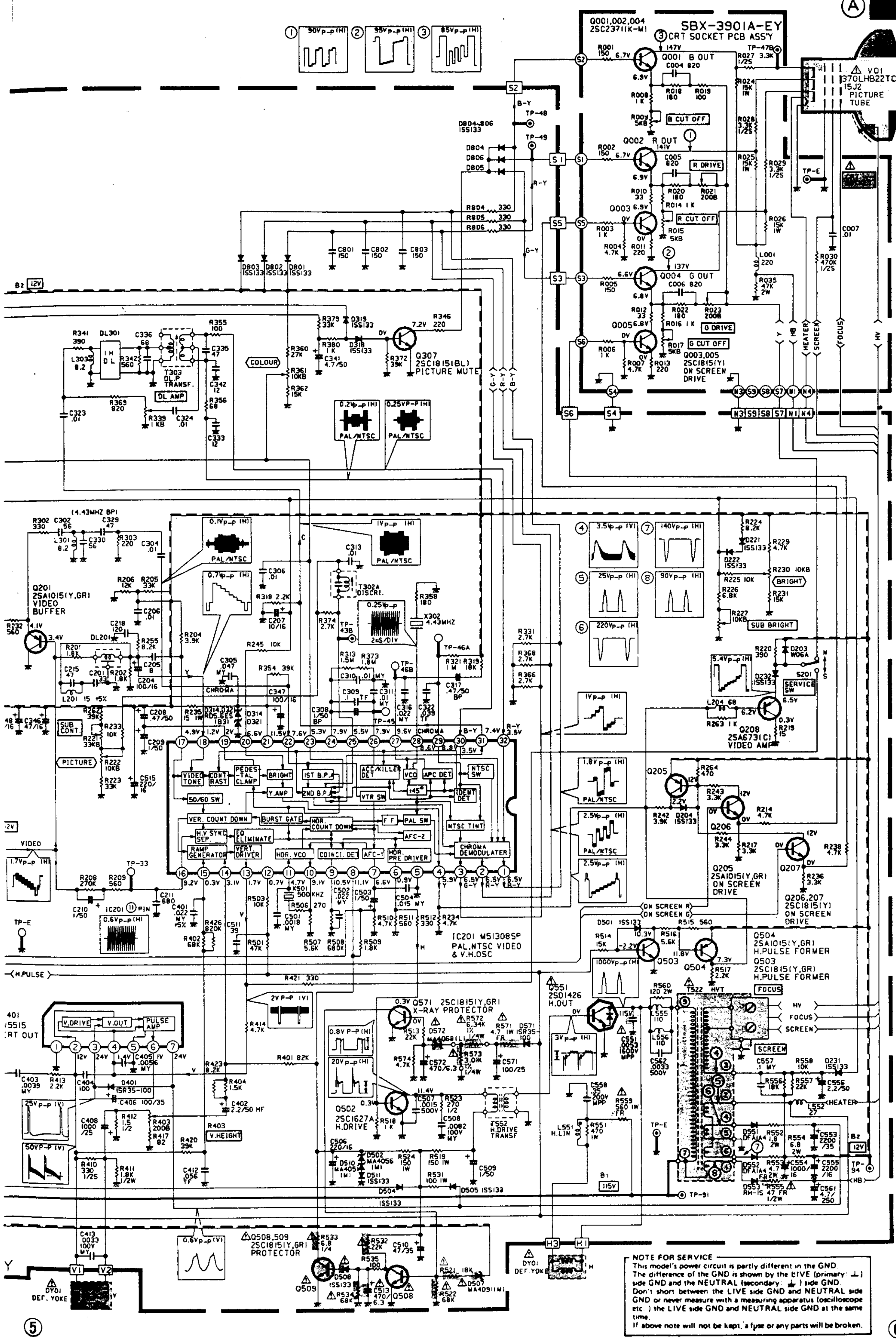
SBX-F001A(F101A,F902A) F001A(E),F902A(E) IF MODULE

MAIN SCHEMATIC DIAGRAM





IC651 TA7222AP AUDIO OUT
SP01 SPEAKER 8Ω
IC921 μPC574J 30V REGULATOR
T901 POWER TRANSF.
T902 DRIVE TRANSF.
Q923 2SD1274AV B1 SWITCH
Q924 2SA1013(O) B1 SWITCH
Q925 2SC2229(Y) B1 SWITCH
Q921 2SA966 AUDIO POWER SWITCH
Q922 2SC1815(Y,GR) AUDIO POWER SWITCH
Q926 2SA1015 (Y,GR) RIPPLE FILTER
IC401 AN5515 VERT OUT
Q201 2SA1015(Y,GR) VIDEO BUFFER
Q307 2SC1815(BL) PICTURE MUTE
T303 DL.P TRANSF.
T302A DISCRI.
IC201 M51308SP PAL,NTSC VIDEO & V.H.OSC
Q571 2SC1815(Y,GR) X-RAY PROTECTOR
Q502 2SC1627A H.DRIVE
T552 H.DRIVE TRANSF.
Q508,509 2SC1815(Y,GR) PROTECTOR
DY01 DEF. YOKE
S702-2 SKEW
S702-1 PRESET
MODULE
NEUTRAL
LIVE
SBX-1901A-EY
MAIN PCB ASS'Y
D BY USING AC 220V)



NOTE FOR SERVICE

This model's power circuit is partly different in the GND.
The difference of the GND is shown by the LIVE (primary: ⊥) side GND and the NEUTRAL (secondary: ⏚) side GND.
Don't short between the LIVE side GND and NEUTRAL side GND or never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and NEUTRAL side GND at the same time.
If above note will not be kept, a fuse or any parts will be broken.

CAUTION

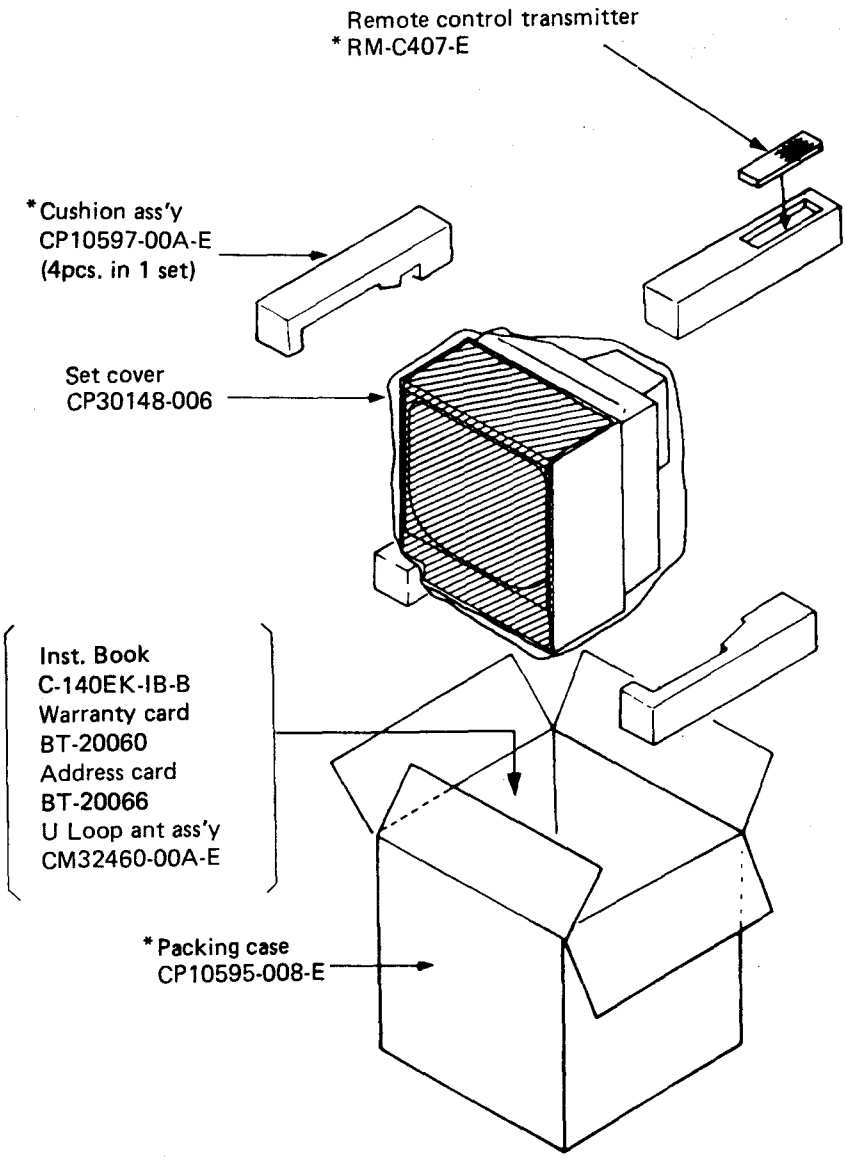
- The parts marked ⚠ are very important for the safety. When replacing these parts, be sure to use specified ones to secure the safety and performance.
- The parts which do not have the drawing in this Parts List, P.C. Board Ass'y and the Part No. columns of which are filled with lines —— , will not be supplied.
- As a rule, the resistors and capacitors which are indicated as shown in (NOTE 2) "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board.
  When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to (NOTE 2).

(NOTE 1) ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Aluminum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
± 1 %	± 2 %	± 5 %	± 10 %	± 20 %	± 30 %	+ 30 / - 10 %	+ 50 / - 10 %	+ 80 / - 20 %	+ 100 / - 0 %

■ PACKING DIAGRAM



JVC

VICTOR COMPANY OF JAPAN, LIMITED
TELEVISION RECEIVER DIVISION 1106 Iwai-city, Ibaraki-prefecture, 306-06, Japan

■ INFORMATION

1. Due to reasons related to local production, certain parts of Model C-140EKY have been changed from those of the original Model C-140EK. Therefore, the Service Manual for C-140EKY primarily includes parts lists. When placing an order for service parts, please previously confirm the applicable model numbers.
2. Such repair/replacement parts of C-140EKY as picture tube, deflection yoke, PC magnet, and wedge ass'y are no longer conventional "individually supplied" parts or have become "assembly supplied" parts for this model. Therefore, when ordering repair/replacement parts, avoid making erroneous designation by confirming applicable model Nos. and parts lists.
3. Due to the above-mentioned change to "assembly supplied" parts, adjustment on convergence under the item of Service Adjustments is not required.
4. Service Adjustments for C-140EK have been partly amended as described below. Use the amended Service Adjustments to conduct adjustments regarding repairs or other servicing work.
5. On the items listed below, descriptions for C-140EKY are identical with those in the Service Manual for C-140EK (No. 5840). Therefore, refer to this Service Manual that pertains to such items.

■ REFER TO C-140EK SERVICE MANUAL

- **SPECIFICATIONS**
- **FEATURES**
- **OUTLINE**
- **FUNCTIONS**
- **HOW TO REMOVE FOR SERVICE**
- **REMOTE CONTROL UNIT PARTSLIST**
- **REPLACEMENT OF THE CHIP**
- *** SCHEMATIC DIAGRAM (RM-C407) (ALGNMENT LOCATION/BASING OF TRANSISTOR AND IC)**
- *** PAL/SECAM (SERVICE ADJUSTMENT)**

*** : COUNTRY OF ORIGIN**

Components identified by the * Symbol in the Parts List are Country of Origin.

■ REPLACEMENT PARTS LIST

* **Parts with an " ⚠ " mark are important for ensuring safety. When replacing these parts, be sure to use designated types so that safety and performance can be maintained.**

* The module PC boards marked with ◎ are supplied as assemblies.

■ MAIN REPLACEMENT PARTS LIST

SYMBOL NO.	⚠	PART NO.	PART NAME	REMARKS	*
CRT & TUNER					
L01	⚠	CE41071-001	DEGAUSSING COIL		
TU1001		KM7351ES-B01	UHF E. TUNER		
V01	⚠	370LHB22TC15J2	PICTURE TUBE/ITC	Include Deflection Yoke, PC Magnet, Wedge Ass'y	*
VARIABLE RESISTOR					
R1104		QVPA601-223A	V R (NOISE)	22kΩ B	
R1221		QVPA603-333A	V R (SUB, CONT)	33kΩ B	
R1222		QVAA009-CB14A	V R (PICTURE)	10kΩ B	
R1227		QVPA603-103A	V R (SUB BRIGHT)	10kΩ B	
R1230		QVAA010-CB14A	V R (BRIGHT)	10kΩ B	
R1339		QVPA601-102A	V R (DL AMP)	1kΩ B	
R1361		QVAA009-CB14A	V R (COLOR)	10kΩ B	
R1403		QVPA803-201M	V R (V. HEIGHT)	200 Ω B	
R1912		QVPA804-503M	V R (B1 ADJ.)	50kΩ B	
R3009		QVPA803-502M	V R (B CUT OFF)	5kΩ B	
R3015		QVPA803-502M	V R (R CUT OFF)	5kΩ B	
R3017		QVPA803-502M	V R (G CUT OFF)	5kΩ B	
R3021		QVPA803-201M	V R (R DRIVE)	200 Ω B	
R3023		QVPA803-201M	V R (G DRIVE)	200 Ω B	
TRANSFORMER					
T1522	⚠	CE41225-00A-KD	H. V. TRANSF.		
T1901	⚠	CE41056-00B	SW. TRANSF.		
T1902	⚠	CE41059-00B	DRIVE TRANSF.		
DIODE					
D1314		RD5.6ES (B3)-Y	ZENER DIODE		
D1321		RD5.6ES (B3)-Y	ZENER DIODE		
D1502		MA4056 (M)-Y	ZENER DIODE		
D1507	⚠	MA4091 (M)-Y	ZENER DIODE		
D1510		MA4051 (M)-Y	ZENER DIODE		
D1572	⚠	MA4068 (L)-Y	ZENER DIODE		
D1701		SLB-22VR5F	L. E. D	Power Ind.	
D1702		SLR-54DU5F	L. E. D.	Off Timer Ind.	
D1703		SLR-54MG5F	L. E. D (GRN)	On Timer Ind.	
D1781		PD49PI	PHOTO DIODE		
D1901		LB-156-LFB	DIODE BRIDGE		
D1925		RD9.1E (B)	ZENER DIODE		
D1929		RD18E (B)	ZENER DIODE		
TRANSISTOR					
Q1551	⚠	2SD1426	SI. TRANSISTOR	H. Out	
Q1901		2SC2655 (Y)-Y	SI. TRANSISTOR		
Q1902		2SA966-Y	SI TRANSISTOR		
Q3001		2SC2371 (K-M)	SI. TRANSISTOR	B. Out	
Q3002		2SC2371 (K-M)	SI. TRANSISTOR	R. Out	
Q3004		2SC2371 (K-M)	SI. TRANSISTOR	G. Out	
IC					
IC1201		M51308SP	I. C. (M)		
IC1401		AN5515	I. C. (M)		
IC1651		TA7222AP	I. C.		
IC1721		AN78L05	I. C. (M)		
IC1781		UPC1373HA (MS)	I. C. (M)		
IC1901	⚠	STR54041S	I. C. (H)		
IC1921		UPC574J	I. C.		
OTHERS					
		SBX-F902A (E)	IF MODULE	◎	
		SBX-M903A (E)	S SELECT MODULE	◎	
		CM11422-00A-E	FRONT CABI ASSY	(Silver)	*
		CM11422-00D-E	FRONT CABI ASSY	(Red)	*
		CM11422-00C-E	FRONT CABI ASSY	(White)	*

■ SERVICE ADJUSTMENTS

■ B_1 POWER SUPPLY

Adjust the B_1 ADJ VR to obtain DC115 V between TP-91 and TP-E (⏚).

■ FOCUS

Adjust the FOCUS VR for best overall definition and picture detail at normal brightness and contrast.

■ VERTICAL HEIGHT

Adjust the V HEIGHT VR to obtain the optimum size of vertical height.

■ NOISE (RF A.G.C. Delay)

This control is set at the factory and rarely requires any adjustment. If a snowy picture appears on a medium to weak station, adjust the NOISE VR.

1. Turn NOISE VR fully clockwise (or counterclockwise), maximum noise in picture.
2. Slowly turn NOISE VR counterclockwise (or clockwise) until snow or noise in picture just disappears.

   Note: Check operation on strong channels. If overloading occurs (bending, poor color, loss of color sync. etc.) make compromise adjustment.

■ SUB BRIGHT AND SUB CONTRAST

1. Receive a colour bar signal.
2. Adjust the SUB BRIGHT VR and SUB CONTRAST VR until an ideal picture is obtained.

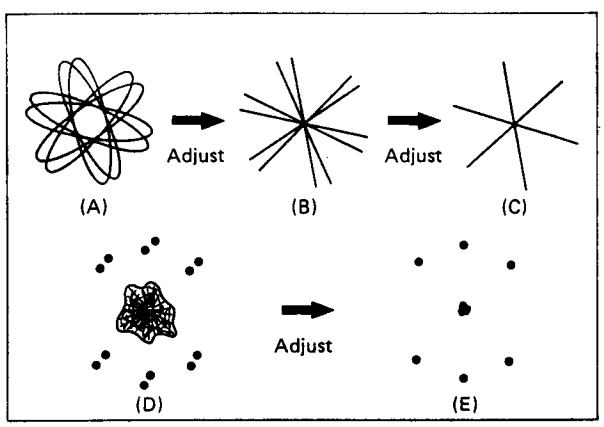
■ CHROMA CIRCUIT

• PAL

1. Set the oscilloscope at the X-Y mode, and then connect CH-1 (X-axis) to TP-49 and CH-2 (Y-axis) to TP-48 respectively.
2. Short C317 capacitor with a jumper wire and then connect pin (24) and pin (26) of IC201 with 10 kΩ resistor, you see lissajous figure (A).

* If the figure is saturated, adjust the COLOUR VR so that it's not.

3. Adjust the DL AMP VR so that the figure becomes (B) from (A).
4. Adjust the DL P TRANSF so that the figure becomes (C) from (B).
5. Adjust repeatedly 3. and 4. more than two times.
6. Remove the jumper wire and 10 kΩ resister from pin (24) and pin (26) of IC201.
7. Then adjust the BURST CLEANING TRANSF (T302A) so that the figure becomes (E) from (D).



■ P. IF/RF. AFC/S. IF – SIMPLIFIED ADJUSTMENT

• P. IF

1. Receive a colour bar signal.
2. Set the PRESET SWITCH to ON (AFC: OFF).
3. By rotating the CW TRANSF (T103), confirm the picture display range. Adjust to obtain optimum picture within this range.
4. Obtain optimum picture by adjusting the P. IF TRANSF (T101).

• RF. AFC

1. Receive a color bar signal.
2. Set the PRESET SWITCH to OFF (AFC: ON).
3. By rotating the AFC TRANSF (T104), confirm the picture display range. Adjust to obtain optimum picture within this range.

• S. IF

1. Tune in a local station, preferably a program with continuous audio.
2. Adjust TAKE OFF TRANSF (T601) and S. IF TRANSF (T602) so that even when sound becomes maximum, there is no distortion.

■ NOTICE FOR APPENDED "PAL/SECAM" ADJUSTMENT

For the following adjustment, adjust by referring to appended PAL/SECAM adjustment.

- **SAFETY PRECAUTION**
- **WHITE BALANCE**

SYMBOL NO.	⚠	PART NO.	PART NAME	REMARKS	*
OTHERS					
		CM11422-00B-E	FRONT CABI ASSY	(Black)	*
		CM43626-A01	POWER KNOB		
		CM41678-B01	PUSH KNOB	(×2)	
	⚠	QMP5138-200R	POWER CORD		
DL1201		CE41064-001	DELAY LINE		
DL1301		CE41305-001	1H DELAY LINE		
F1901	⚠	QMF51E2-3R15S	FUSE	3.15A	
LF1901	⚠	CE40995-00A	LINE FILTER		
R1555	⚠	QRZ0055-470M	F R	47 Ω 1/2W J	
R1559	⚠	QRH017J-561M	F R	560 Ω 1W J	
R1571	⚠	QRH017J-4R7M	F R	4.7 Ω 1W J	
R1908	⚠	QRZ0054-100M	F R	10 Ω 1/4W J	
R1934	⚠	QRH017J-101M	F R	100 Ω 1W J	
SP01		HSA0899-01D-KD	SPEAKER		
S1201		QSL4A13-C02	LEVER SWITCH	Service SW	
S1702		QST3221-C01	PUSH SWITCH	Preset, Skew, System	
S1703		QSP4H11-C02	PUSH SWITCH	Power	
S1705		QSP4H11-C02	PUSH SWITCH	Tuning△	
S1706		QSP4H11-C02	PUSH SWITCH	Tuning▽	
S1707		QSP4H11-C02	PUSH SWITCH	Memory	
S1708		QSP4H11-C02	PUSH SWITCH	Ch△	
S1709		QSP4H11-C02	PUSH SWITCH	Ch▽	
S1710		QSP4H11-C02	PUSH SWITCH	Vol△	
S1711		QSP4H11-C02	PUSH SWITCH	Vol▽	
S1901	⚠	QSP4D21-C06	PUSH SWITCH	Main Power SW	
TH1901	⚠	A76038-T	POSISTOR	or A76038	
X1302		CE41115-001	CRYSTAL		
X1501		CSB500F9	CERAMIC RESO		

■ CHASSIS & CABINET PARTS LIST

VIEW NO.	SYMBOL NO.	PART NO.	PART NAME	REMARKS	*
1		CM11422-00B-E	FRONT CABI ASSY	(Black)	*
1		CM11422-00D-E	FRONT CABI ASSY	(Red)	*
1		CM11422-00A-E	FRONT CABI ASSY	(Silver)	*
1		CM11422-00C-E	FRONT CABI ASSY	(White)	*
2		CM21143-002-E	DOOR	(Black) Within F. Cabi Assy	*
2		CM21143-003-E	DOOR	(Red) Within F. Cabi Assy	*
2		CM21143-001-E	DOOR	(Silver)Within F. Cabi Ass'y	*
2		CM21143-003-E	DOOR	(White) Within F. Cabi Ass'y	*
3		CM31977-C04	CONTROL SHEET	〃	
4		CM43626-A01	POWER KNOB	〃	
5		CM30861-034	SPRING	〃	
6		CM31894-C03	INDICATOR WINDOW		
⚠ 7	V01	370LHB22TC15J2	PICTURE TUBE/ITC	Include Deflection Yoke, PC Magnet, Wedge Ass'y	*
8		A48457	SPRING		
9	SP01	HSA0899-01D-KD	SPEAKER		
⚠ 11	L01	CE41071-001	DEGAUSSING COIL		
12		CM32270-003	RATING LABEL		
⚠ 13	T1522	CE41225-00A-KD	H. V. TRANSF		
16		CM41678-B01	PUSH KNOB	(×2)	
17		CM41677-A01	KNOB CAP		
18		CM20952-B01-V0	POWER CORD CLAMP		
19		CM10761-001-ME	REAR COVER		*
⚠ 20		QMP5138-200R	POWER CORD		
21		CH30168-00B	BRAIDED ASSY		
22	TU1001	KM7351ES-B01	UHF E. TUNER		
23		CM32460-00A-E	U LOOP ANT ASSY		*
24		SBX-F902A (E)	IF MODULE	◎	
25		SBX-M903A (E)	S SELECT MODULE	◎	
27	S1201	QSL4A13-C02	LEVER SWITCH	Service SW	
⚠ 28	Q1551	2SD1426	SI TRANSISTOR	H. Out	
29	S1702	QST3221-C01	PUSH SWITCH	Preset, Skew, System	
30	S1703	QSP4H11-C02	PUSH SWITCH	Power	
31	S1705	QSP4H11-C02	PUSH SWITCH	Tuning△	
32	S1706	QSP4H11-C02	PUSH SWITCH	Tuning▽	
33	S1707	QSP4H11-C02	PUSH SWITCH	Memory	
34	S1708	QSP4H11-C02	PUSH SWITCH	CH△	
35	S1709	QSP4H11-C02	PUSH SWITCH	CH▽	
36	S1710	QSP4H11-C02	PUSH SWITCH	Vol△	
37	S1711	QSP4H11-C02	PUSH SWITCH	Vol▽	
38	D1701	SLB-22VR5F	LED	Power Ind.	
39	D1702	SLR-54DU5F	LED	Off Timer Ind.	
40	D1703	SLR-54MG5F	LED (GREEN)	On Timer Ind.	
⚠ 41	S1901	QSP4D21-C06	PUSH SWITCH	Main Power SW	
⚠ 42	F1901	QMF51E2-3R15S	FUSE	3.15A	
43		GBSA4016N	TAP SCREW	(×6)	

■ REPLACEMENT PARTS LIST

* **Parts with an " ⚠ " mark are important for ensuring safety. When replacing these parts, be sure to use designated types to that safety and performance can be maintained.**

■ MAIN REPLACEMENT PARTS LIST

SYMBOL NO.	⚠	PART NO.	PART NAME	REMARKS	*
CRT & TUNER					
L01	⚠	CE41071-001	DEG COIL		*
TU1001		KM7352ES-G01J2	UHF E TUNER		*
V01	⚠	370LHB22TC15J2	PICTURE TUBE/ITC	Include deflection Yoke, PC Magnet, Wedge Ass'y	*
VARIABLE RESISTOR					
R1104		CEX40358-223	VR (NOISE)	22KΩ B	*
R1221		CEX40330-333	VR (SUB CONT)	33KΩ B	*
R1222		QVAA009-CB14A	VR (PICTURE)	10KΩ B	*
R1227		CEX40330-103	VR (SUB BRIGHT)	10KΩ B	*
R1230		QVAA010-CB14A	VR (BRIGHT)	10KΩ B	*
R1339		CEX40358-102	VR (DL AMP)	1KΩ B	*
R1361		QVAA009-CB14A	VR (COLOR)	10KΩ B	*
R1403		CEX40202-022	VR (V. HEIGHT)	200 Ω B	*
R1912		CEX40268-054	VR (B1 ADJ.)	50KΩ B	*
R3009		CEX40202-053	VR (B. CUTOFF)	5kΩ B	*
R3015		CEX40202-053	VR (R. CUTOFF)	5kΩ B	*
R3017		CEX40202-053	VR (G. CUTOFF)	5kΩ B	*
R3021		CEX40202-022	VR (R. DRIVE)	200 Ω B	*
R3023		CEX40202-022	VR (G. DRIVE)	200 Ω B	*
TRANSFORMER					
T1522	⚠	CE41225-00A	HV TRANSF		*
T1901	⚠	CE41056-00B	SW. TRANSF.		*
T1902	⚠	CE41059-00B	DRIVE TRANSF.		*
DIODE					
D1314		RD5. 6ES (B3) -Y	ZENER DIODE		*
D1321		RD5. 6ES (B3) -Y	ZENER DIODE		*
D1502		MA4056 (M) -Y	ZENER DIODE		*
D1507	⚠	MA4091 (M) -Y	ZENER DIODE		*
D1510		MA4051 (M) -Y	ZENER DIODE		*
D1572	⚠	MA4068 (L) -Y	ZENER DIODE		*
D1701		SLB-22VR5F	L E D	Power ind.	*
D1702		SLR-54DU5	L E D	Off Timer ind.	*
D1703		SLR-54MG5	LED (GRN)	On Timer ind.	*
D1781		PD49PI	PHOTO DIODE		*
D1901		LB-156	DIODE BRIDGE		*
D1925		RD9. 1E (B)	ZENER DIODE		*
D1929		RD18E (B)	ZENER DIODE		*
TRANSISTOR					
Q1551	⚠	2SD1426	SI. TRANSISTOR	H. Out	
Q1901		2SC2655 (Y)	SI. TRANSISTOR		
Q1902		2SA966	SI. TRANSISTOR		
Q3001		2SC2371 (K-M)	SI. TRANSISTOR	B. Out	*
Q3002		2SC2371 (K-M)	SI. TRANSISTOR	R. Out	*
Q3004		2SC2371 (K-M)	SI. TRANSISTOR	G. Out	*
IC					
IC1201		M51308SP	I. C.		*
IC1401		AN5515	I. C.		*
IC1651		TA7222AP	I. C.		
IC1721		AN78L05	I. C.		*
IC1781		UPC1373HA (MS)	I. C. (M)		*
IC1901	⚠	STR54041S	I. C.		*
IC1921		UPC574J	I. C.		*
OTHERS					
		SBX-F902A (E)	IF MODULE		
		SBX-M903A (E)	S SELECT MODULE		
		CM43626-004-E	POWER KNOB		*
		CM41678-003-E	PUSH KNOB	(×2)	*
	⚠	QMP5138-200J3	POWER CORD		*

SYMBOL NO.	⚠	PART NO.	PART NAME	REMARKS	*
OTHERS					
		CM11032-00W	FRONT CABI. ASS'Y	(Silver)	*
		CM11032-00X	FRONT CABI. ASS'Y	(Black)	*
		CM11032-00Y	FRONT CABI. ASS'Y	(White)	*
		CM11032-00Z	FRONT CABI. ASS'Y	(Red)	*
DL1201		CE41064-001	DELAY LINE		*
DL1301		CE41305-001	1H DELAY LINE		*
F1901	⚠	QMF51E2-3R15J2	FUSE	3. 15A	*
LF1901	⚠	CE40995-00A	LINE FILTER		*
R1555	⚠	QRZ0055-470M	F R	47 Ω 1/2W J	*
R1559	⚠	QRH017J-561M	F R	560 Ω 1W J	*
R1571	⚠	QRH017J-4R7M	F R	4. 7 Ω 1W J	*
R1908	⚠	QRZ0054-100M	F R	10 Ω 1/4W J	*
R1934	⚠	QRH017J-101M	F R	100 Ω 1W J	*
SP01		CEBSB08P-01KJ1	SPEAKER		*
S1201		QSL4A13-C02	LEVER SWITCH	Service SW	*
S1702		QST3221-C01	PUSH SWITCH	Preset, Skew	*
S1703		QSP4H11-C02	PUSH SWITCH	Power	*
S1705		QSP4H11-C02	PUSH SWITCH	Tuning △	*
S1706		QSP4H11-C02	PUSH SWITCH	Tuning ▽	*
S1707		QSP4H11-C02	PUSH SWITCH	Memory	*
S1708		QSP4H11-C02	PUSH SWITCH	CH △	*
S1709		QSP4H11-C02	PUSH SWITCH	CH ▽	*
S1710		QSP4H11-C02	PUSH SWITCH	Vol △	*
S1711		QSP4H11-C02	PUSH SWITCH	Vol ▽	*
S1901	⚠	QSP4D21-C06	PUSH SWITCH	Main Power SW	*
TH1901	⚠	A76038-T	W-PTC	or A76038	*
X1302		CE41115-001	CRYSTAL		*
X1501		CSB500F9	CERAMIC RESO		*

SYMBOL NO.	PART NO.	PART NAME	REMARKS	*
OTHERS				
⚠ R1555	QRZ0055-470M	F R	47 Ω 1/2W J	*
⚠ R1559	QRH017J-561M	F R	560 Ω 1W J	*
⚠ R1571	QRH017J-4R7M	F R	4.7 Ω 1W J	*
⚠ R1908	QRZ0054-100M	F R	10 Ω 1/4W J	*
⚠ R1934	QRH017J-101M	F R	100 Ω 1W J	*
S1201	QSL4A13-C02	LEVER SWITCH	Service SW	*
S1702	QST3221-C01	PUSH SWITCH	Preset, Skew	*
S1703	QSP4H11-C02	PUSH SWITCH	Power	*
S1705	QSP4H11-C02	PUSH SWITCH	Tuning △	*
S1706	QSP4H11-C02	PUSH SWITCH	Tuning ▽	*
S1707	QSP4H11-C02	PUSH SWITCH	Memory	*
S1708	QSP4H11-C02	PUSH SWITCH	CH △	*
S1709	QSP4H11-C02	PUSH SWITCH	CH ▽	*
S1710	QSP4H11-C02	PUSH SWITCH	Vol △	*
S1711	QSP4H11-C02	PUSH SWITCH	Vol ▽	*
⚠ S1901	QSP4D21-C06	PUSH SWITCH	Main Power SW	*
⚠ TH1901	A76038-T	W-PTC	or A76038	*
TU1001	KM7352ES-G01J2	UHF E TUNER		*
X1302	CE41115-001	CRYSTAL		*
X1501	CSB500F9	CERAMIC RESO		*

SBX-3901A-EY (CRT SOCKET PB ASS'Y)

SYMBOL NO.	PART NO.	PART NAME	REMARKS	*
VARIABLE R				
R3009	CEX40202-053	VR (B. CUTOFF)	5kΩ B	*
R3015	CEX40202-053	VR (R. CUTOFF)	5kΩ B	*
R3017	CEX40202-053	VR (G. CUTOFF)	5kΩ B	*
R3021	CEX40202-022	VR (R. DRIVE)	200 Ω B	*
R3023	CEX40202-022	VR (G. DRIVE)	200 Ω B	*
RESISTOR				
R3024	QRG019J-153S	OM R	15kΩ 1W J	*
R3025	QRG019J-153S	OM R	15kΩ 1W J	*
R3026	QRG019J-153S	OM R	15kΩ 1W J	*
R3035	QRG029J-473A	OM R	47kΩ 2W J	*
CAPACITOR				
C3007	QCZ9016-103A	C CAP.	0.01μFAC400V P	*
COIL				
L3001	QQL043K-221	PEAKING COIL	220μH	*
TRANSISTOR				
Q3001	2SC2371 (K-M)	SI. TRANSISTOR	B. Out	*
Q3002	2SC2371 (K-M)	SI. TRANSISTOR	R. Out	*
Q3003	2SC1815 (Y) -Y	SI TRANSISTOR		*
Q3004	2SC2371 (K-M)	SI. TRANSISTOR	G. Out	*
Q3005	2SC1815 (Y) -Y	SI TRANSISTOR		*
OTHERS				
⚠	CE40228-00E	CRT SOCKET		*

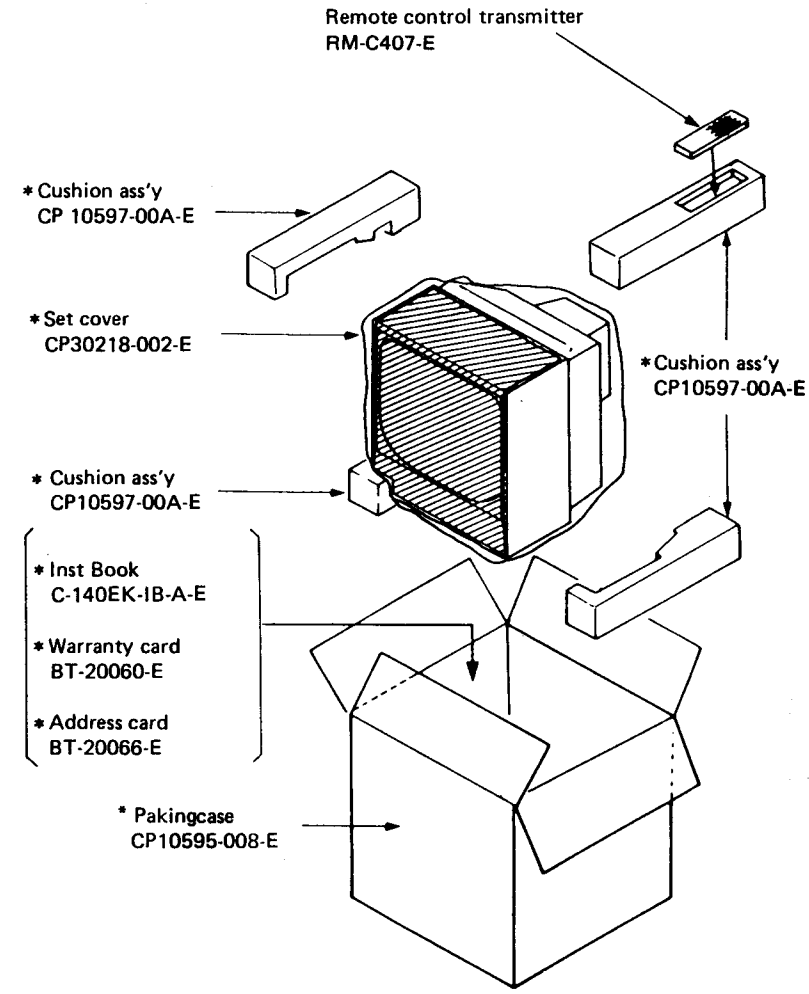
SBX-F902A(E) (IF MODULE)

SYMBOL NO.	PART NO.	PART NAME	REMARKS
CAPACITOR			
C1113	QEE51VK-224M	TAN. CAP.	0.22μF 35V K
C1116	QCT81CH-101YLS	CHIP C CAP.	100pF 50V J
C1117	QCT81CH-101YLS	CHIP C CAP.	100pF 50V J
TRANSFORMER			
T1101	CE40117-309	1ST PIF TRANSF	
T1103	CE40119-301	CW TRANSF	
T1104	CE40123-600	AFC TRANSF	
T1601	CE40736-202	TAKE TRANSF	
T1602	CE40737-201	SIF TRANSF	
COIL			
L1101	CE41066-R56YL	CHIP INDUCTOR	
L1102	CE40582-2R2	PEAKING COIL	2.2μH
L1104	CE40344-100YL	CHIP INDUCTOR	
L1107	CE40344-220YL	CHIP INDUCTOR	
DIODE			
D1101	MA3100 (M) -X	CHIP ZENER DIODE	
TRANSISTOR			
Q1101	2SC1360	SI. TRANSISTOR	
Q1103	2SA1022 (B, C) -W	CHIP TRANSISTOR	
Q1104	2SC2712 (Y, G) -X	CHIP TRANSISTOR	
Q1107	2SC2712 (Y, G) -X	CHIP TRANSISTOR	
Q1108	2SC2712 (Y, G) -X	CHIP TRANSISTOR	
Q1111	2SC1959 (Y)	SI. TRANSISTOR	
IC			
IC1101	M51346AP	I. C.	
OTHERS			
CF1101	A76138	C. TRAP	
CF1601	A75111-C'	CERAMIC FILTER	
SF1101	CE40454-301	SAW FILTER	

SBX-M903A(E) (STATION SELECT MODULE)

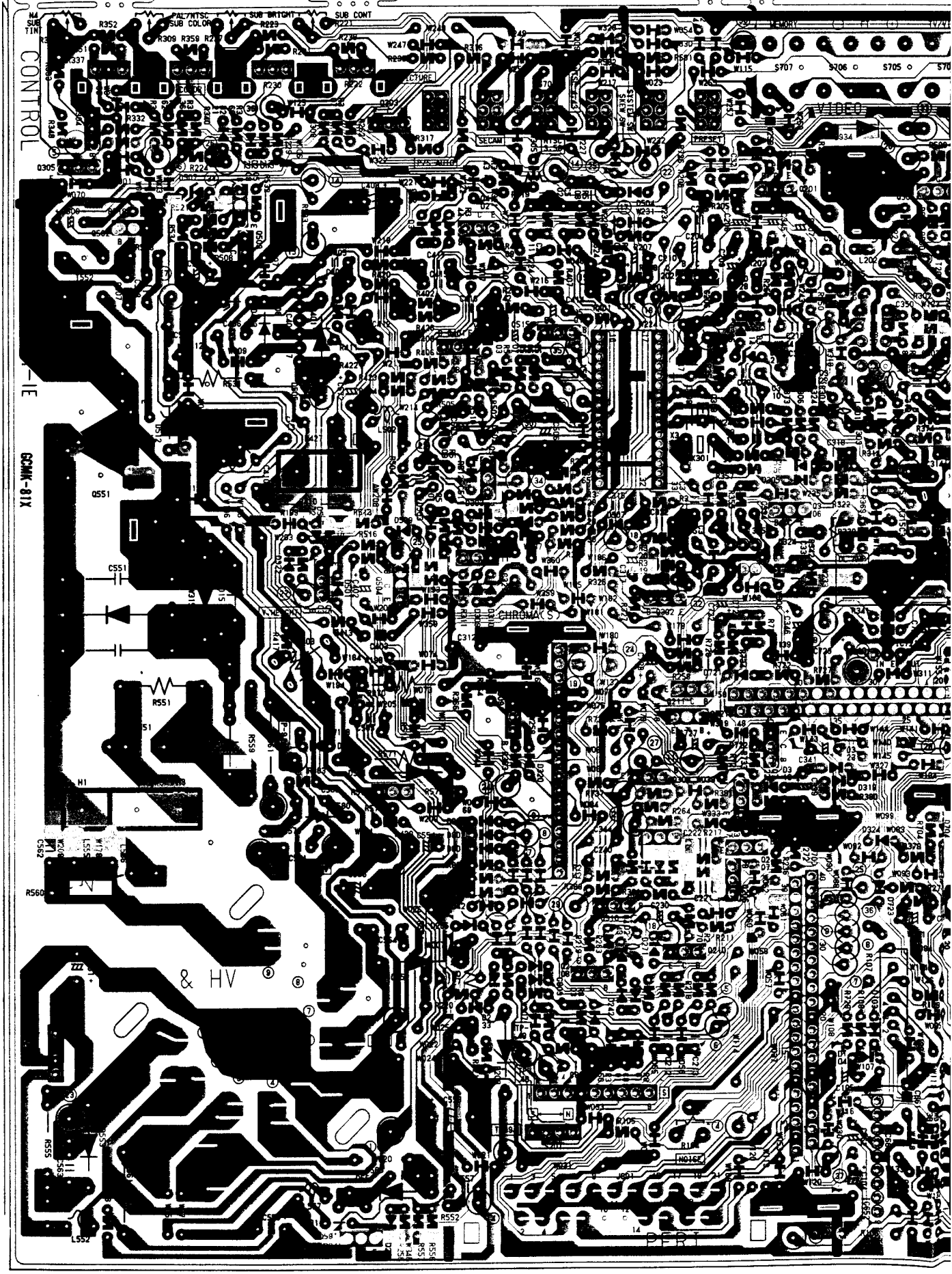
SYMBOL NO.	PART NO.	PART NAME	REMARKS
CAPACITOR			
C1012	NCB41HK-104PY	CHIP CAP.	0.1μF 50V K
C1013	NCB41HK-104PY	CHIP CAP.	0.1μF 50V K
C1014	NEA11HM-335RZ	CHIP AL E CAP.	3.3μF 50V M
C1015	NEA10JM-226RZ	CHIP AL E CAP.	22μF 6.3V M
C1016	NEA11HM-474RZ	CHIP AL E CAP.	0.47μF 50V M
C1017	NEA11HM-335RZ	CHIP AL E CAP.	3.3μF 50V M
COIL			
L1001	CE40344-1R5YL	CHIP INDUCTOR	
L1002	CE40344-390YL	CHIP INDUCTOR	
DIODE			
D1001	1SS193-X	CHIP DIODE	
D1002	1SS193-X	CHIP DIODE	
D1003	1SS193-X	CHIP DIODE	
D1004	1SS193-X	CHIP DIODE	
D1009	1SS193-W	CHIP DIODE	
D1010	1SS193-W	CHIP DIODE	
D1011	1SS193-W	CHIP DIODE	
D1012	1SS193-X	CHIP DIODE	
D1014	1SS193-X	CHIP DIODE	
D1015	1SS193-W	CHIP DIODE	
D1016	1SS193-W	CHIP DIODE	
D1017	1SS184-X	CHIP DIODE	
TRANSISTOR			
Q1004	2SA1162 (Y, G) -W	CHIP. TRANSISTOR	
Q1005	2SA1162 (Y, G) -W	CHIP. TRANSISTOR	
Q1006	2SC2712 (Y, G) -X	CHIP TRANSISTOR	
Q1007	2SC2712 (Y, G) -X	CHIP TRANSISTOR	
Q1011	2SC2712 (Y, G) -X	CHIP TRANSISTOR	
Q1012	2SA1162 (Y, G) -W	CHIP. TRANSISTOR	
Q1013	2SC2712 (Y, G) -W	CHIP TRANSISTOR	
Q1014	2SC2712 (Y, G) -X	CHIP TRANSISTOR	
IC			
IC1001	M58659FP	I. C.	
IC1002	M50435-893FP	I. C. (M)	
IC1003	MB88301APF-W	I. C. (M)	
IC1004	UPD4049UBG-W	I. C. (M)	or TC4049BF-W
OTHERS			
X1001	CRE500	CERAMIC RESO	

■ PACKING DIAGRAM



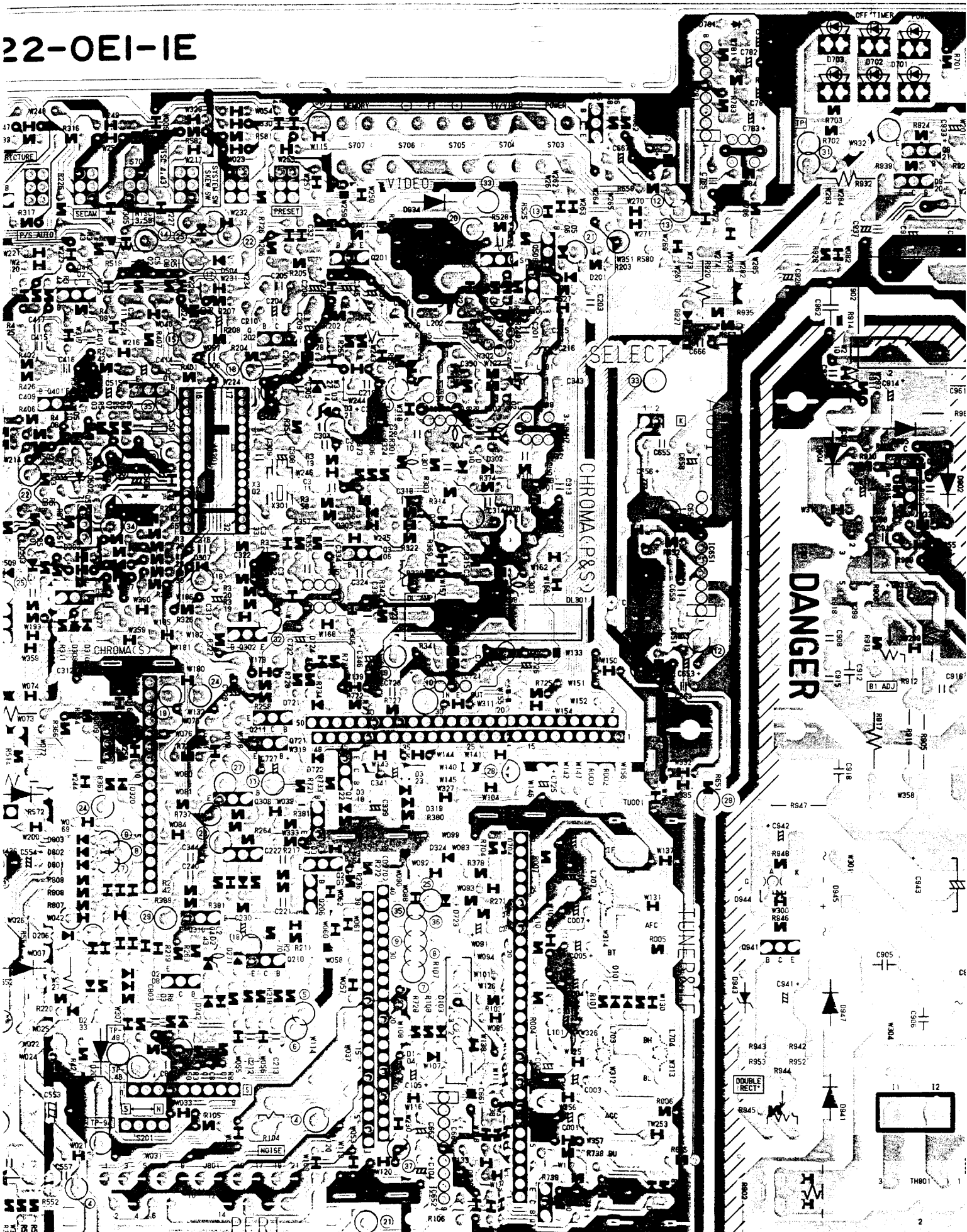
Ⓐ MAIN PC BOARD BACK PATTERN (CK10422-0E1)

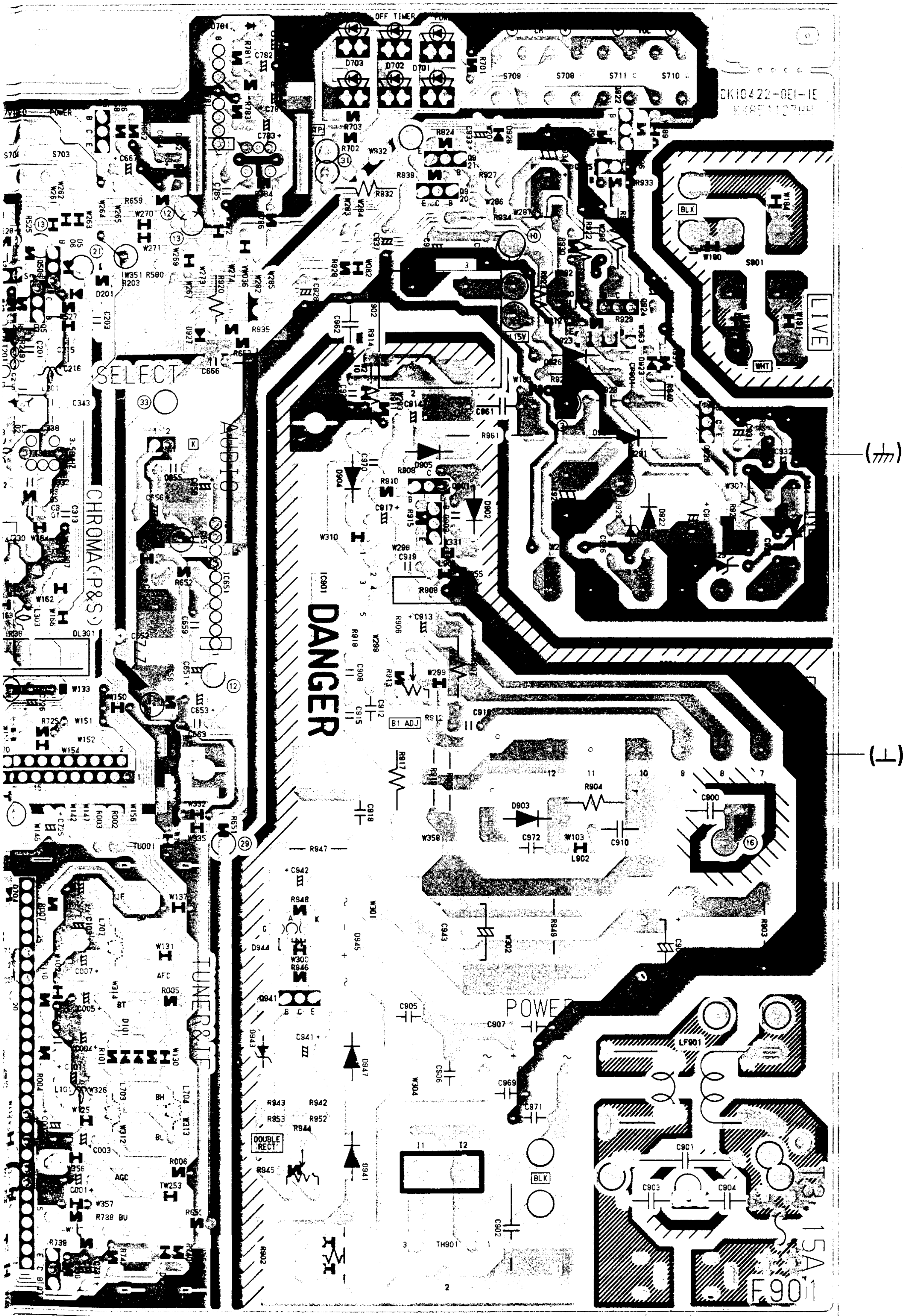
CKI0422-0EI-IE



RN (CK10422-0E1)

22-0EI-IE




OFF TIMER
POWER
S709
S708
S711
S710
CK10422-0E1-1E
SELECT
AUDIO
CHROMA(P&S)
TUNER&IF
DANGER
LIVE
BLK
WHT
B1 ADJ
DOUBLE RECT
POWER
LF901
15A
F901